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## Research Article

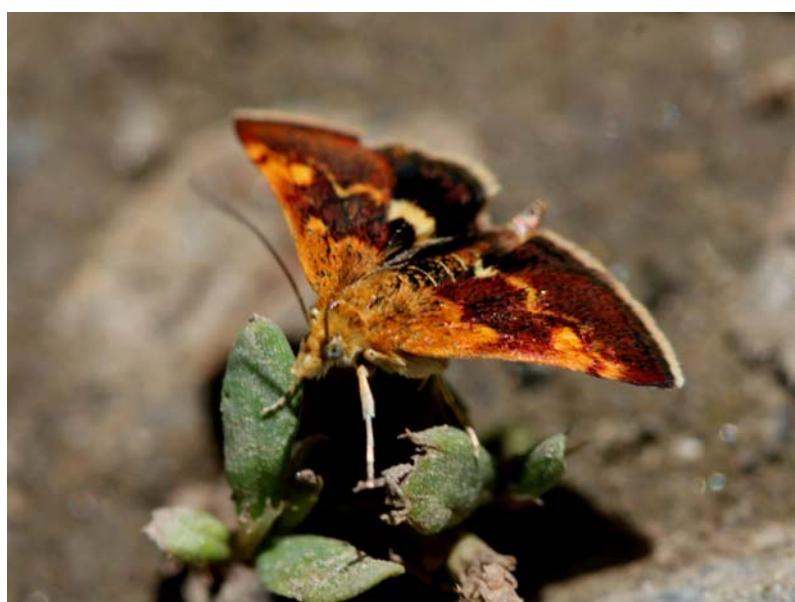
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## On the *Pyralidae* of Bahçesaray district, with some eco-faunistical and taxonomical notes (Van Province, East Turkey) (*Lepidoptera*)

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**Abstract:** On the *Pyralidae* of Bahçesaray district, with some eco-faunistical and taxonomical notes (Van Province, East Turkey) (*Lepidoptera*). *Priamus* 14 (4): 161 - 245, 111 figs., 62 maps. This paper deals with the *Pyralidae* of Bahçesaray. Totally 116 taxa are listed faunistically for the first time, together with synonyms, original references, and range in codes. Among them 23 species are recorded new to the fauna of Van Province. Following acts are realized here for the first time: The illustrations of the behaviours of several species in the nature and the tympanal organs of a significant number of species. Totally 62 maps of the species are prepared according to their distributional codes. The correctness of the lectotype designation of *Bradyrrhoa mesobaphella* is discussed. A new subgenus, *Kasikoparania* is established. Taxonomical evaluations of the following, possibly taxa will be separately studied: *Bradyrrhoa* sp., *Catoptria* sp., *Episcythrastis* sp., *Faveria* sp., *Khorassania* sp., *Loxostege* sp., *Phycita* sp., *Polyocha* sp., *Psorosa* sp., and *Pyrausta* sp.

**Key words:** *Pyralidae*, *Lepidoptera*, fauna, genitalia, tympanal organs, morphology, behaviour, taxonomy, description, Bahçesaray, Van, Turkey.



**Fig. 1 –** *Pyrausta obfuscata*. Diurnal moth, during its flight around muddy places, Bahçesaray, Mukus valley 1840m, 4.7.2016.

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Bahçesaray has been the focus of several faunistic studies by the authors in the last year, recording at least 870 species in total.<sup>2</sup> Within the private Cesa Projects, “Diversity of the Lepidoptera in the World (DLW)”<sup>3</sup>, “Entomofauna of Turkey (ET)”<sup>4</sup>, Tympanal Morphology of the Pyralidae (Lepidoptera) (TMP)<sup>5</sup>, and “Mapping of the Lepidoptera of Old World (MLO)”<sup>6</sup>, the Pyralidae of Bahçesaray district is studied here for the first time.

The first comprehensive list of the Pterygota fauna of Van province has been published by the authors (Koçak & Kemal, 2012). Similarly, regional studies in the Van Province have been carried out by the authors and published (Kemal & Koçak, 2014, 2016a, 2016b, 2016c). In the previous parts of Bahçesaray fauna, the authors published the first faunal information of the Pterygota (Kemal & Koçak, 2016d; Kemal, Koçak & Ecer, 2016; Kemal, Hakan, Koçak & Tekin, 2016). Recently, the Noctuidae, Geometridae and other Macro-Heterocera families of Bahçesaray district have been studied. Thus, 317 species of Lepidoptera have been evaluated and listed so far (Kemal & Koçak, 2016e- 2016g).

In the present paper, more than 1000 specimens of the Pyralidae<sup>7</sup> from Bahçesaray are studied. All the species are identified by the authors. Meanwhile, some results of the thesis on the Pyralidae of Mutki are also used (Akin, 2014). Specifically indetermined species, *Bradyrrhoa* sp., *Catoptria* sp., *Episcythrasis* sp., *Faveria* sp., *Khorassania* sp., *Loxostege* sp., *Phycita* sp., *Polyocha* sp., *Psorosa* sp. and *Pyrausta* sp. will be studied separately. Most of them might be new species to the science.

Faunistically, 116 pyralid species are listed here together with the synonyms, original references, and updated distributional information in codes. Totally 23 pyralid species are recorded as new to the fauna of Van Province. Now, the total examined moth species of Bahçesaray district rose to 432.

Most of the species recorded in the district are nocturnal. The daily activity of some crambids like *Agriphila*, *Chrysocrambus*, and some other pyralids, *Nomophila*, *Ephelis*, *Cynaeda*, *Pyrausta* are both nocturnal and diurnal, as well as crepuscular. Among the species of *Pyrausta*, *obfuscata* and *amatalis* are frequently observed on the muddy places during sunny and hot middays, together with some male blue butterflies (**Figs. 1, 23**); the latter *Pyrausta* species is rarer than the former.

The commonest species in the district is *Nomophila noctuella*. It is also widely distributed in the world (**Map. 38**). According to our present knowledge, there are also some pyralids that confined to the mountainous regions of East Turkey. For example, *Bradyrrhoa mesobaphella* (Van, İğdir provinces), *Catoptria hilarella* (Kahramanmaraş, Van provinces), *Megasis kocaki* (Bitlis, Van provinces), *Phycita kurdistanella* (Van province).

Morphologically, the male genitalia, if exists with the coremata, of the following 30 species are prepared and illustrated here: *Acrobasis consociella*, *A. dulcella*, *Agriphila tolli*, *Anarpia incertalis*, *Ancylolomia pectinatella*, *Arsissa divaricella*, *Bradyrrhoa mesobaphella* (both sexes), *B. gilveolella*, *Catoptria hilarella*, *C. pinella*, *Hypochalcia ahenella*, *Mecyna biterinalis*, *Merulempista cingillella*, *Pediasia matricella*, *Pempeliella sororiella*, *Phycita kurdistanella*, *P. poteriella*, *P. spissicella*, *Phycitodes albatella*, *Polyocha transversariella*, *Psorosa maraschella*, *Pyrausta despicata*, *P. neglectalis*, *P. obfuscata*, *P. purpuralis*, *P. sanguinalis*, *Scoparia subfusca*, *Sefidia clasperella*, *Sitochroa straminealis*, *Syrianarpia mendicalis*. The genitalic structures are used for the precise identification of the species. Complementarily, the tympanal organs of some species are prepared and illustrated here for the first time. Similarly, 25 tympanal preparats are prepared and illustrated first in this paper. These are: *Acrobasis consociella*, *A. dulcella*, *Agriphila tolli*, *Anarpia incertalis*, *Ancylolomia pectinatella*, *Bradyrrhoa mesobaphella*, *B. gilveolella*, *Hypochalcia ahenella*, *Merulempista cingillella*, *Pediasia matricella*, *Pempeliella sororiella*, *Phycita kurdistanella*, *P. poteriella*, *P. spissicella*, *Phycitodes albatella*, *Polyocha transversariella*, *Psorosa maraschella*, *Pyrausta despicata*, *P. neglectalis*, *P. obfuscata*, *P. purpuralis*, *P. sanguinalis*, *Sefidia clasperella*, *Sitochroa straminealis*, *Syrianarpia mendicalis*. Detailed

<sup>2</sup> While, the total species number of the Pyralidae of Turkey was 663, Lepidoptera species of Turkey increased to 5511.

<sup>3</sup> <https://www.researchgate.net/project/Diversity-of-the-Lepidoptera-in-the-World-DLW>

<sup>4</sup> <https://www.researchgate.net/project/Entomofauna-of-Turkey-ET>

<sup>5</sup> <https://www.researchgate.net/project/Tympanal-Morphology-of-the-Pyralidae-Lepidoptera-TMP>

<sup>6</sup> <https://www.researchgate.net/project/Mapping-of-the-Lepidoptera-of-Old-World-MLO>

<sup>7</sup> The name Pyralidae is used here in older sense.

evaluation of this organ will be studied later. For this purpose, some basic publications, like Minet (1982, 1983), Maes (1985) will be taken into consideration.

To some taxa, taxonomic comments of the authors on the validity of some scientific names, lectotype selection are given. A new subgenus to the science is also established here, in accordance with the rules of the ICBN.

Totally 62 maps of the species are prepared for this paper according to their distributional codes.

All the preparations, and the photographs belong to the first author (in the archive Cesa). The materials are preserved in the Cesa collection, Ankara<sup>8</sup>.

### **List of the species recorded in Bahçesaray district**

Below, 116 pyralid species are listed alphabetically, together with the synonymous names, arranged chronologically. Original references are also added. Distributional information are given as codes<sup>9</sup>. Brief eco-faunistical notes are mentioned.

# denotes nomenclaturally unavailable name.

#### **318. *Acrobasis consociella* (Hübner,[1813]) Figs. 28-30, Map 1,**

Synonym(s): *consociella* Hübner,[1813]; *consocialis* Hübner,[1825]; *tumidella* Duponchel,1836; *oberthueri* Lucas,1914. Original Reference: *Tinea consociella* Hübner,[1813], Samml. eur. Schmett. 8, Tineae: Tab.48 fig.328. Type(s): Europa. Range (in code): PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU GR DK NO SE FI EE LV LT RU MD UA BY TR TM Kp 05 06 13 65 05A 06R 13F 13F01 13F11 13F20 13F35 13F41 65A 65Ai Prep. no: GP2511<sup>↑</sup>

It occurs at various habitats of *Quercus* woodland, nocturnal. Uncommon. New to the fauna of Van Province.

#### **319. *Acrobasis dulcella* (Zeller,1848) Figs. 31-33**

Synonym(s): *dulcella* Zeller,1848 Original Reference: *Rhodophaea dulcella* Zeller,1848, Isis von Oken 1848 (9): 663-664. Type: "Ungarn". Range (in code): ES Grn An FR Si IT DE AT SK HU RO YU AL BG GR RU MD UA BY Cc AM TR IQ Shq LB Bsa IR Gh Enz Srd Elb Mz Kh 05 13 16 35 42 46 47 51 56 65 05A 13F 13F35 16A 42B 47D 56F 65A 65Am 65Am1 65N 65Np2 65Nm Prep. no: GP2519♂, GP2521♂

Uncommon in the district, nocturnal.

#### **320. *Acrobasis repandana* (Fabricius,1798) Map 2,**

Synonym(s): *repandana* Fabricius,1798; *tumidella* Zincken,1818; *zelleri* Ragonot,1888. Original Reference: *Pyralis repandana* Fabricius,1798, Ent. Syst. Suppl.: 478. Type: Europa. Range (in code): PT ES FR Sa IT GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR DK NO SE FI EE LV LT RU MD UA BY TR o6 21 65 06R 06Rb 21N 21Nh 65A 65Ai 65D 65Dt 65Dv

It occurs at various habitats of *Quercus* woodland, nocturnal.

#### **321. *Acrobasis tumidana* ([Denis & Schiffermüller],1775) Fig. 2, Map 3**

Synonym(s): *tumidana* [Denis & Schiffermüller],1775; *tumidalis* Hübner,[1825]; *rubrotibiella* Fischer v. Roeslerstamm,1839. Original Reference: *Tortrix tumidana* [Denis & Schiffermüller],1775, Ankündung syst. Werkes Schmett. Wienergegend: 103. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): ES FR Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE LT RU MD UA BY TR IR Kd Lo 12 13 16 42 46 56 65 80 12Ed 13A 13Ab 13Ax 13F 16A 56F 65A 65Ai

It occurs at various habitats of *Quercus* woodland, nocturnal. New to the fauna of Van Province.

#### **322. *Aglossa asiatica* Erschoff,1871**

Synonym(s): *asiatica* Erschoff,1871; *abdidalis* Christoph,1873; *maceralis* Chrétien,1891; *indistincta* Corbet & Tams,1943 Original Reference: *Aglossa pinguinalis* var. *asiatica* Erschoff,1871, Horae Soc. ent. ross. 8: 317. Syntypes: "Samarkand". Range (in code): TR LB EG Cr IR Elb Th Kdj Ha Adv Fa Shr Sse IL Hf Pa CY AF PK UZ Smk o6 46 65 65A 65Am 65Am4

<sup>8</sup> <http://grbio.org/cool/eaaz-xyfc>

<sup>9</sup> <http://www.members.tripod.com/entcesa/Code.pdf>

It occurs at various habitats in the district, nocturnal. New to the fauna of Van Province.

**323. *Agriphila tolli* (Bleszynski, 1952) Figs. 3, 34-36, Map 4**

Synonym(s): *tollii* Bleszynski, 1952 Original Reference: *Crambus tolli* Bleszynski, 1952, Z. Wien. ent. Ges. 37: 149, Taf. 16 figs. 2, 5. Holotype ♂: Dalmatien: Ragusa. Range (in code): Co Si IT AT CZ SK HU RO YU HV AL BG GR Cr CY TR SY IQ Mos Shq IR RU MD UA Cm 01 05 06 13 22 42 59 65 80 06R 13F 65A 65Am 65Am4 65Am1 65Ai 65N 65Np 65Nm Prep. no: GP2203, GP2450

It occurs at grassy places, autumnal. Diurnal to nocturnal.

**324. *Anarpia incertalis* (Duponchel, 1832) Figs. 37-39, Map 5**

Synonym(s): *incertalis* Duponchel, 1832; *pyrenealis* Duponchel, 1842; *incertella* Duponchel, [1845]; *pyrenaella* Duponchel, [1845]; *pyrenaicalis* Guenée, 1846; *phytophanes* Meyrick, 1937; *rupestris* Meyrick, 1937 Original Reference: *Eudorea incertalis* Duponchel, 1832, Hist. nat. Lépid. Pap. Fr. 8 (2): 286-287, pl. 229 fig. 4. Type: Corse. Range (in code): MA DZ Btma TN PT ES Py FR Co Sa Si IT YU GR Cr TR Cc AZ Nv Ord Eri AM RU IR Elb Mz Dam Kh IL Pa Js LB Bsa CY B-H SY JO AF UZ KG KK IQ Rwz 05 13 16 46 65 73 13F 65A 65Ac3 73C 73Cd Prep. no: GP2426

It occurs at various habitats in the district, nocturnal. New to the fauna of Van Province.

**325. *Ancylolomia palpella* ([Denis & Schiffermüller], 1775) Map 6**

Synonym(s): *palpella* [Denis & Schiffermüller], 1775; *sovinskyi* Krulikovsky, 1909 Original Reference: *Tinea palpella* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 134. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): DZ Lbs Cst PT ES FR IT BE AT SK HU RO YU AL BG GR CY RU MD UA BY IR IQ Shq Amr Mos IL Pa Js LB TR Cc EG TM Kp KG 05 06 10 16 31 33 36 42 46 58 65 71 05A 16A 31M 65A 65An 65D 65Df 65Dh 65N 65Nb 65Np8 65Nm Prep. no: GP2438

It occurs at grassy places, nocturnal. Common.

**326. *Ancylolomia pectinatella* (Zeller, 1847) Figs. 40-42, Map 7**

Synonym(s): *pectinatellus* Zeller, 1847 Original Reference: *Crambus pectinatellus* Zeller, 1847, Isis 1847: 747. Type ♂: Sizilien. Range (in code): Si IT MT HU YU BG GR Cr TR IL Pa Js Hf JO LB IQ Mos IR Ahz CY SY 05 06 16 31 34 35 42 46 65 05A 16A 31M 46G 46Gi 65A 65Am 65Am4 Prep. no: GP536, GP2480

It occurs at grassy places, nocturnal. Uncommon. New to the fauna of Van Province.

**327. *Ancylosis cinnamomella* (Duponchel, 1836) Map 8**

Synonym(s): *dilutella* Tr., 1832 [n.o.]; *cinnamomella* Dup., 1836; *labeomella* Staudinger, 1859; *lafauryella* Rag., 1887; *byzacaeniella* Rag., 1887; *roseopennella* Rag., 1901; *tunesella* Caradja, 1910; *fuliginosa* Rothschild, 1913; *pictella* Tur., 1922; *ferrugineolineella* Tur., 1924. Original Reference: *Phycis cinnamomella* Duponchel, 1836, Hist. nat. Lépid. Papillons Fr. 10: 190, Pl. 279, f. 4. Type(s): France: Montpellier. Range (in code): DZ TN Gf PT ES Mu FR Co Sa Si IT BE LU DE CH AT PL CZ SK HU RO YU AL MK BG GR NO SE FI LV MD RU Or Sb Ur UA BY KG Uk Ind TM TR LB Bei Bsa SY Dms IL Hf Js JO IQ Shq Mos Bsr EG EG11 IR Elb Kj Th Fa Ha Ss AF Kab Kbb Pag CN Ui Ku UZ Man KK T-S Cc AZ Kir MN Mri Eba MA Ifr Ouk 01 03 05 06 09 13 14 16 21 26 31 34 42 46 47 65 71 76 05A 13F 13Fo1 13F11 13F35 13F41 16A 65A 65Am 65D 65Dg 65Fp 65Fz 76C Prep. no: GP2460, GP2502

It occurs at various habitats in the district, nocturnal. Common.

**328. *Ancylosis sareptalla* (Herrich-Schäffer, 1861)**

Synonym(s): *sareptalla* Herrich-Schäffer, 1861; *barbella* Lederer, 1863; *albidella* Ragonot, 1888 Original Reference: *Epischnia sareptalla* Herrich-Schäffer, 1861, Neue Schmett. Eur. 1861: 28, fig. 145. Type ♀: Russland: Sarepta. Range (in code): ES An FR Si IT CH AT CZ SK HU RO YU AL BG GR RU Or Sr MD UA BY TR IL Hf Pa LB Bei Bsa SY Dms KG Uk MN PK Gg AF UZ Br o3 o6 o7 21 38 42 46 47 58 65 o6R 65A 65Am 65Am4

Like the previous species.

**329. *Arsissa divaricella* (Ragonot, 1887) Fig. 43, Map 9**

Synonym(s): *divaricella* Ragonot, 1887; #*aurantiacella* Caradja, 1910; *velocella* Toll, 1948; *firusella* Amsel, 1961 Original Reference: *Bradyrrhoa divaricella* Ragonot, 1887, Annls Soc. ent. Fr. (6) 7: 240. Type (s): [Usbekistan]: Samarkand (MNHN). Range (in code): UZ Smk TR Cc GG IR Fa Sse Com Ha Ss Kh Th Elb Kdj NSS

**Km Kd Lo Zj SA SA63 01 12 13 31 46 65 76 12A 12Ab 13A 13Ab 13F 65A 65Am 65Am4 65D 65Df 65Dh 65Dt 65Dv 76C**  
**Prep. no:** GP2376<sup>♂</sup>

It occurs at various habitats in the district, nocturnal. Common.

### 330. *Arsissa ramosella* (Herrich-Schäffer, [1855]) Map 10

Synonym(s): *ramosella* Herrich-Schäffer, [1855]; *albiramosella* Caradja, 1916; *caradjaella* Zerny, 1939 Original Reference: *Pyralis ramosella* Herrich-Schäffer, [1855], Syst. Bearb. Schmett. Eur. 6:148, Taf.21 fig.146. Type(s): [Türkei]: Amasia. Range (in code): TR RU Sr LB Bei IR Elb Th Kdv Kd Fa Sse Shr Kdj Ha Zj Kh Shh Ab TM Kp Cc AM AF Hr Kab Kbb Pnj Srb Slg PK 05 06 13 42 45 46 47 56 58 65 70 05A 06Y 13F 13F6 56F 56Fs 56Fs1 65A 65Am 65Am1 65D 65Df 65Drd 65Dv 65Dh 65Dt 65Du 65F 65Fe 65Fp 65Fz 65N 65Np2 65Nm 70C 70Ce

It occurs at various habitats in the district, nocturnal. Common.

### 331. *Asalebria (Exophora) exasperata* (Staudinger, 1879) Fig.4, Map 11

Synonym(s): *exasperata* Staudinger, 1879; #*exaspersata* Roesler, 1988 Original Reference: *Myelois* ? *exasperata* Staudinger, 1879, Horae Soc. ent. ross. 15: 217-218. Syntypes 1♂: [Türkei]: Amasia: "Jenikeui-Hochebene"; 1♀: "Taurus". Range (in code): TR Cc AM Eri IR Ha Kd 01 05 06 08 13 21 25 30 32 38 42 46 47 58 65 76 05A 06R 13F 13F6 30D 30Dt 42B 65A 65Ac 65Ac3 65At 65At5 65D 65Df 65F 65Fp 65Fz 76C

Common in the district. Nocturnal.

### 332. *Asalebria (s.str.) geminella* (Eversmann, 1844) Map 12

Synonym(s): *geminella* Eversmann, 1844 Original Reference: *Myelophila geminella* Eversmann, 1844, Fauna lepid. Volga-Ural.: 564. Type: Russia: Ural. Range (in code): PT ES HU TR RU Ur KG Uk 13 30 65 13F 30B 30Be1 30Bx 65A 65Ai 65Am 65Am1 65D 65Dl 65Dlc

Uncommon in the district. Nocturnal.

### 333. *Bradyrrhoa (Kasikoparania) mesobaphella* Ragonot, 1888 Figs. 5, 44-49, Map 13

Synonym(s): *mesobaphella* Ragonot, 1888 Original Reference: *Bradyrrhoa mesobaphella* Ragonot, 1888, Nouv. gen. esp. Phycit. Galler. 1888: 26. Type ♂: [Turkey]: "Arménie russe". Lectotype ♀: [Türkei]: "Russisch Armenien: Kasikoparan" (Roesler, 1993: 83). Range (in code): Cc TR 65 76 65A 65Ab 65Aba 65Ac 65Ac3 76C Prep. no: GP2499<sup>♂</sup>, GP2500<sup>♀</sup>.

New to the fauna of Van Province.

Remarks: There are several applications and attributions that we have difficulty in understanding.

Ragonot (1888) described "*Bradyrrhoa mesobaphella*" on page 26 in his original publication and based upon the male, collected from "Arménie russe" (see below).

95. BRADYRRHOA MESOBAPHELLA. — 26 mill. ♂. — Supérieures jaune ocracé pâle uni, l'espace médian ocracé brunâtre, plus pâle sur la côte. Lignes transversales indiquées seulement par la couleur foncée de l'espace médian, la première coudée au milieu, anguleuse sur la nervure dorsale, la deuxième oblique, sinuée, échancreée sur les plis, Points discoïdaux bruns. Inférieures gris brunâtre, frange blanche. Palpes obliques, courts. — Arménie russe.

Later, Ragonot (1893: 552-553) mentioned a description of female, with the information of a male specimen from Kasikoparan in the Romanoff's collection. But yet, the original type-series of *Bradyrrhoa mesobaphella* consists of a single male only, mentioned in the description by Ragonot (1888: 26). Further information on the new material, cited 5 years later, cannot be included to the type-series.

Roesler (1993: 83) designated 1♀, preserved in MNHN, Paris (coll. Ragonot). He also added "Kasikoparan" as the locus typicus of *Bradyrrhoa mesobaphella* in the "Russisch Armenien". Since 1923, Kasikoparan is a Turkish village above Gaziler (=Kulp) in the Province Iğdır (NE Turkey).

Three questions: Ragonot described *mesobaphella* on a male only (*loco citato*); Roesler designated a female as Lectotype<sup>10</sup>. (1) How this selection and designation can be possible? (2) Where are the rest of the original series, i.e. paralectotypes? Roesler mentioned also the number of the material studied as “1♀” only. Roesler stated contrary to Ragonot: “*das ♂ ist unbekannt*”. (3) How can be explained scientifically this discrepancy?

It seems that Roesler was not serious enough during his taxonomical evaluation on *Bradyrrhoa mesobaphella*. Furthermore, Leraut (2014: 170) illustrated this lectotype ♀ from “Central Asia (Kazikoparan)”. He clearly confused on these two geographical territories, Transcaucasus and Central Asia.

As to the identification of *Bradyrrhoa mesobaphella* Rag., the unique specimen in the museums of the world, can be used, is the female specimen in the Ragonot’s collection (MNHN, Paris), published by Ragonot (1888) as male, so-called by Roesler (1993) as female lectotype.

Our material from Bahçesaray on this species consists of one male and one female. The characters of the female genitalia (**Fig. 49**) fits well to Roesler’s schematic drawing (Taf. 51 fig.16). As to the male genitalia and the coremata, especially the characters of the valva differ from all known *Bradyrrhoa* species very much (**Fig. 46**). The tympanal organs of the male (**Figs. 47, 48**) are illustrated here for the first time. After taking these structural features into consideration, we came to the conclusion that *mesobaphella* should be placed in an other generic group. Therefore, we propose a distinct subgenus, *Kasikoparania* with the following diagnostic characters:

### ***Bradyrrhoa* Zeller, 1848**

Type-species: *Phycis gilveolella* Treitschke, 1833, by subsequent designation by Ragonot (1893: 550).

#### ***Kasikoparania* (subgen.n.)**

<http://zoobank.org/NomenclaturalActs/83CA2756-DFEE-4B46-834C-F5D907D92C83>

Type-species: *Bradyrrhoa mesobaphella* Ragonot, 1888, here designated.

#### Diagnosis (mentioned in italics):

Male genitalia: Uncus oblong, round at apex. *Scaphium oblong, distinct from that of gilveolella. Gnathos small, roundish, with small and short terminal spine. Valva thick, stout, distal end round. Costa thick, well-developed, horn-shaped, shorter than valva. No chitinous process in the middle as in gilveolella. Sacculus large, well-chitinized. Vinculum narrower at base. Aedeagus possesses two different chitinous part, smooth and dentate. Cornutus very short, ¼ of aedeagus. Coremata differs greatly from gilveolella.*

Female genitalia: Similar to that of *gilveolella*, but bursa copulatrix much longer.

External features: ♂. Forewing 12mm, wingspan: 27mm. ♀. Forewing 12.5mm, wingspan: 28mm. No significant feature between sexes. Upperside forewing dark yellowish. Median area slightly darker. Dark brown spots at anal area typical. Ciliae slightly darker. Hindwing yellowish grey, ciliae paler. Underside forewing: Median part dark brown. Hindwing underside similar, but paler brown. Head, thorax and abdomen yellowish (**Figs. 44, 45**).

Etymology: The name of the subgenus is attributed to the type locality of the type-species, Kazikoparan (NE Turkey).

Material studied: 1♂. Van Pr., Bahçesaray, Liman, Populetum 2320m, 7.8.2016 (GP2499). 1♀. Bahçesaray, Krapet Pass 2820m, 7.8.2016 (GP2500) (coll. Cesa).

Very rare and confined to alpine zone.

### **334. *Bradyrrhoa* (s.str.) *imperialella* (Ragonot, 1887)**

Synonym(s): *imperialella* Ragonot, 1887. Original Reference: *Nephopteryx imperialella* Ragonot, 1887, Annls Soc. ent. Fr. 1887: 230. Syntypes: Caucase [Borjom], Arménie russe [Kazikoparan]; Sibérie (cf. Ragonot, 1893: 266-267). Range (in code): MK GR Ce GG Smt Bjo TR RU Sb 65 76 65A 65Am 65Am4 65D 65Dv 65Dv 76C

It occurs in the mountain steppe. Nocturnal, rare. This species inhabits also in Çatak district.  
Prep. no: GP2388♂.

<sup>10</sup> Comment of the authors: **Lectotype** is a specimen later selected to serve as the single name bearing type specimen for the species, which is originally described from a number of the specimens (type-series) of syntypes, or co-types. In other words, if a species described on a single specimen, it may be called simply as “type”, “monotype”, or “holotype”. It cannot be designated later as “Lectotype” in a publication.

**335. *Bradyrrhoa (s.str.) gilveolella* (Treitschke,1833) Figs. 50-52, Map 14**

Synonym(s): *gilveolella* Treitschke,1833 Original Reference: *Phycis gilveolella* Treitschke,1833, Schmett. Eur. 9 (2): 271-272. Type(s): [Romania, Banat, Timișoara]. "gegend von Temeswar". Range (in code): Si RO YU AL MK BG GR TR IR Ab Cc AM Eri RU UA Cm KK Na AU 01 05 06 13 16 21 22 23 29 30 31 44 51 38 42 44 46 51 56 58 65 71 77 05A 13A 13Ab 13Ae 13Ax 13F 13F6 13F01 13F11 13F38 13F41 16A 21N 21Nb 30B 30Bc1 30Bx 31M 44E 44Eh 44I 44Ic 44L 44Lc 56F 56F<sub>1</sub> 65A 65Ac 65Ac<sub>3</sub> 65Am 65Am<sub>4</sub> 65D 65Df 65Dh 65F 65F<sub>p</sub> 65Fz 65N 65Np<sub>2</sub> 65Np<sub>5</sub> 65Nr<sub>2</sub> 65Nm Prep. no: GP2498<sup>↑</sup>

It occurs at various habitats in the mountains between 1600m and 2300m. Nocturnal, common.

**336. *Bradyrrhoa (s.str.)* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Am 65Am<sub>4</sub> 65B 65Bo Prep. no: GP2229<sup>↑</sup>, GP2497<sup>↑</sup>

**337. *Catoptria* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): BG GR Tyg 01 13 65 80 01G 01K 13F 13G 13Gs 13Gw 65A 65Am 65Am<sub>4</sub> 65D 65Df 80E 80Ea

**338. *Catoptria hilarella* (Caradja,1925) Figs. 7, 53, Map 15**

Synonym(s): *hilarellus* Caradja,1925 Original Reference: *Crambus hilarellus* Caradja,1925, Dt. ent. Z., Iris 39: 142. Lectotype<sup>↑</sup>: [Türkei]: "Zeitun" [Süleymanlı] (Bleszynski,1965: 282). Range (in code): TR 46 65 46L 65A 65Ab 65Aba Prep. no: GP2367<sup>↑</sup>

It occurs at alpine zone, univoltine, nocturnal; recorded only from Krapet pass 2820m. New to the fauna of Van Province.

**339. *Catoptria pinella* (Linnaeus,1758) Figs. 6, 54, Map 16**

Synonym(s): *pinella* Linnaeus,1758; *virginella* Scopoli,1763. Original Reference: *Phalaena pinella* Linnaeus,1758, Syst. Nat. (Edn.10): 539. Lectotype<sup>↑</sup>: [Europa] (Robinson & Nielsen, 1983: 223). Range (in code): MA DZ TN PT ES C-M Cue FR Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR LB IR Gls DK NO SE FI EE LV LT RU Tt Ur Kj Mnu Ir Irk Vv Ask Sh MD UA BY JP Hkk KG Tk Dj 01 05 13 14 16 33 65 80 81 05A 13F 13F38 13F41 16A 65A 65Ac 65Ac<sub>3</sub> Prep. no: GP516<sup>↑</sup>, GP2368<sup>↑</sup>.

It occurs at alpine zone, univoltine, nocturnal; recorded only from Liman, Populetem 2320m. New to the fauna of Van Province.

**340. *Chrysocrambus craterellus* (Scopoli,1763) Fig. 8, Map 17**

Synonym(s): *craterellus* Scopoli,1763; *rorella* Linnaeus,1767; *klimeschi* Toll,1938; *alpinus* Bleszynski,1958; *abruzzellus* Bleszynski,1958. Original Reference: *Phalaena craterellus* Scopoli,1763, Entomologia Carniolica: 246. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): DZ Cst Clo PT ES FR IT GB BE DE CH AT PL CZ SK HU RO YU AL BG GR RU Ur MD TR Cc Arr CY JO IR Kh LB Bsa 01 05 06 10 13 14 16 22 36 37 38 39 40 46 48 50 58 65 69 71 76 05A 06R 06Rd 10K 10Ka 13G 13Gg 16A 65A 65An 65At 65Au 65B 65Bn 65Bn1 65Df 65Dg 65Dl 65Dlc 65Fz 65N 65Nc 65Np<sub>1</sub> 65Np<sub>2</sub> 65Nm

It occurs at Middle Heights, grassy places, univoltine, diurnal to nocturnal, common.

**341. *Chrysocrambus linetellus* (Fabricius,1781) Map 18**

Synonym(s): *linetellus* Fabricius,1781; *cassentiniellus* Herrich-Schäffer,[1848]; *distinctus* Müller-Rutz,1920; *chrysocrossis* Meyrick,1936; #marioni Dufrane,1960. Original Reference: *Tinea linetella* Fabricius,1781, Spec. Ins.2: 291. Lectotype<sup>↑</sup>: Italia: Piemont (Bleszynski,1965: 344). Range (in code): ES FR Co Sa Si IT GB CH AT SK HU RO YU AL BG GR Cr TR SY JO IR Gh Tgo LB IQ CY Rd UZ Br CN Ui Cc AZ Len 01 04 06 13 33 42 44 50 53 58 65 76 80 06R 13A 13Ab 13Ax 13B 13Bd 13G 13Ge1 13Gf 13F6 44L 44Lc 65A 65Ai 65Au 65B 65Bö 65Bx 65D 65K 65Kl 76C

Like the previous species, often sympatric.

**342. *Cynaeda (s.str.) gigantea* (Staudinger,1879) Fig. 9, Map 19**

Synonym(s): #*gigantea* Wocke,1871; *gigantea* Staudinger,1879 Original Reference: *Odontia dentalis* v. *gigantea* Staudinger,1879, Horae Soc. ent. ross. 15: 165-166. Syntypes: [Türkei]: Amasia. Range (in code): FR

CH HU YU GR Cr TR IQ Hjo Ssa IR Fa Shr Com Sse GlS IL Pa LB Bsa AF Slg Pnj Pag Adr KG Uk 05 06 08 13 14 21 23 38 42 44 46 50 56 58 65 76 05A 06K 06B 06Rk 13A 13Ab 13Ax 13F 13F6 14B 14Bb 21L 21Lc 38H 38Hc 44E 44Eh 50G 56F 56F1 56Fb 58G 65A 65Ac 65Ac3 65Am 65Am1 65D 65Df 65Dt 65Du 65Fz 65N 65Np1 65Nr4 65Nm 76C

Like the previous species, at ruderal places where *Echium*, *Anchusa* (*Boraginaceae*) grow. Blackish colour of its caterpillar distinguishes easily from *C. dentalis* (Koçak, 1989).

### 343. *Cynaeda (Usgentia) vespertalis* (Herrich-Schäffer,[1855]) Map 20

Synonym(s): *vespertalis* Herrich-Schäffer,[1855]; #*gilvalis* Zerny,1914; #*sordidalis* Zerny,1914. Original Reference: *Noctuelia vespertalis* Herrich-Schäffer,[1855], Syst. Bearb. Schmett. Eur. 6: 140, figs. 121-123. Range (in code): Si GR LB TR Cc AM IR Kh Elb Th Kdj Fa Yz 01 05 13 31 33 42 45 46 55 65 72 80 01H 05A 13G 13Gç 65A 65Ai 65D 65Dl 65Dlc 65Dr 65Drb 65F 65Fç 65Fz 72E 72Eh 80E 80Ea

A rare species, the moths sit often on hot stony grounds by day.

### 344. *Dolicharthria bruguieralis* (Duponchel,1833) Map 21

Synonym(s): *bruguieralis* Duponchel,1833; *coniotalis* Hampson,1903; *pseudobotys* Rothschild,1913; *similalis* Rothschild,1915; *bahrlutalis* Amsel,1935; *mauretanica* D.Lucas,1949 Original Reference: *Botys bruguieralis* Duponchel,1833, [in] Godart, Hist. Nat. Lépid. Pap. Fr. 15: 320, Tab. 232 fig.3. Syntypes: Nismes [sic!], Corsica. Range (in code): DZ Rhr Clo Ah Omy Onç PT ES FR Co Sa Si IT MT RO YU AL BG GR Cr TR CY LB Bsa Bmm IL Pa Hf IQ Rzw Brs Ry Shq IR Fa Shr Sse Bu AF Pnj Kab Pli Gbh Srb Khi Adr Fz ZA 01 05 06 07 13 16 21 31 32 33 44 46 65 70 73 05A 07B 13F 16A 21N 21Nh 31K 31Ka 31Ka5 31M 33A 33Ad 44E 44Eh 44I 44Ic 44L 44Le 65A 65Am 65Am1 65D 65Dlc 65Dh 65Du 65Dv 70C 70Ce 73A 73Aç2 73D 73Db Prep. no: GP760↑.

Nocturnal, uncommon.

### 345. *Ecpyrrhorhoe diffusalis* (Guenée,1854) Map 22

Synonym(s): *carnealis* Dup.,1831 nec Treit.1829; *diffusalis* Guenée,1854; *affusalis* Guenée,1854; *tenuialis* Mann,1862. Original Reference: *Botys diffusalis* Guenée,1854, [in] Boisduval & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: 340. Syntypes 2♂ 3♀: "Espagne, France mer., env. Nîmes et de Montpellier" (coll. Guenée & Lefebvre). Range (in code): TN ES FR IT CH HU RO YU HV AL BG GR IL Pa Hf TR IR Fa Shr Com Ss Th Kdj Ha Mz LB Bsa AF Pic Kab Srb Bsg Pag PK Cp AE Cc GG Tbl Bjo AZ Kir Nv Ord AE 01 05 06 13 16 21 31 38 42 44 46 47 56 60 65 71 73 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 31K 31Ka 31Ka3 31M 44I 44Ic 44L 44Lc 46G 46Gf 56F 56F1 65A 65Am 65Am1 65Am2 65Am4 65Ab 65Aba 65D 65Df 65Dg 65Dv 65Dt 65Ds 65F 65Fç 65Fp 65Fz 65N 65Np6 65Nm 73A 73Ad 73Ad2 Prep. no: GP766↑, GP778♀

Nocturnal, common.

### 346. *Endotricha flammealis* ([Denis & Schiffermüller],1775) Map 23

Synonym(s): *flammealis* [Denis & Schiffermüller],1775; *adustalis* Turati,1905; *lutealis* Turati,1905; *carnealis* De Lattin,1951 Original Reference: *Pyralis flammealis* [Denis & Schiffermüller],1775, Ankündung syst. Werkes Schmett. Wienergegend: 123. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): DZ Clo TN PT ES FR Co Sa Si IT MT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR IQ IL Hf Pa CY LB Cc GG IR Fa Sse Com Shr Mz Th Kdj Gor Gh Tgo TM Kp DK SE RU MD UA BY KG 01 05 06 07 08 10 12 13 16 30 31 33 34 42 44 46 48 56 58 60 65 71 80 05A 06R 06Rb 07B 07Bb 08H 08Hc 10K 10Ka 12E 12Eb 12Ec 12Ed 13G 13Gf 13F 16A 30D 30Dx 31K 31Ka 31Ka3 31M 42B 44I 44Ic 48D 56F 56Fa 56F1 60G 65A 65Ai 65D 65Dv 65Dt 65Du 65Dv 65F 65Fg

Nocturnal, common, and widely distributed species.

### 347. *Ephelis cruentalis* (Geyer,[1832]) Fig. 10, Map 24

Synonym(s): *cruentalis* Geyer,[1832]; *bourjotalis* Duponchel,1833; *badialis* Treitschke,1835 Original Reference: *Uresiphita cruentalis* Geyer,[1832], [in] Hübner, Zutriäge Samml. exot. Schmett. 4: 29, pl.[124], figs. 721,722. Range (in code): FR Si IT YU BG GR Rd Cr TR LB Cc GG Tbl Mng Lag AM AZ IL Pa Hf EG IR Fa Sse Elb Th Kdj Nss Kdv Gor Kh IQ Ry Shq AF Adr Shv Kab KG Slu Syr 01 05 06 12 13 16 21 25 30 31 33 34 35 36 38 39 42 44 46 49 56 58 63 65 76 80 05A 06K 06R 12E 12Ed 13F 13Gü 13Gw 16A 21L 21Lf 30B 30Bc1 30Bx 30D 30Dx 31M 36D 36Db 42K 44L 44Lc 49D 49Db 56D 56Dc 56F 56Fç 56F1 58G 58R 58Rb 65A 65Ai 65Ac 65Ac3 65Aba 65D 65Df 65Dh 65Dl 65Dlc 65Dt 65Du 65Dv 65F 65Fp 65Fz 65H 65Hb 65K 65Ké 65Kg 65N 65Np2 65Nr2 65Nm 76C 80B 80Bc Prep. no: GP769↑, GP770+

Nocturnal to diurnal, common. Its caterpillar feeds on *Hypericum* spp. (Kemal & Karabacak, 2008).

**348. *Ephestia (Anagasta) welseriella* (Zeller, 1848) Map 25**

Synonym(s): *welseriella* Zeller, 1848; *modestella* Lederer, 1863; *tephrinella* Lederer, 1870; *rhenanella* Fuchs, 1877; *suffusella* Ragonot, 1901; *immodestella* Rebel, 1916; *superbella* Lucas, 1954; *capricola* Hampson, 1927. Original Reference: *Myelois welseriella* Zeller, 1848, Isis 1848: 673. Type(s): Ragusa. Range (in code): LY Cy DZ MA TN Gf PT ES Mu FR Co Sa Si IT MT DE CH AT HU RO YU HV MK AL BG GR Cr TR IL Hf Pa LB Bsa Bei RU Cc GG AM AZ IR Mz Elb 05 06 13 16 42 44 45 46 65 71 05A 13F 35 16A 44L 44Lc 65A 65Am 65Am1 65D 65Df

New to the fauna of Van Province.

**349. *Epiepischnia pseudolydella* Amsel, 1954 Map 26**

Synonym(s): *pseudolydella* Amsel, 1954. Original Reference: *Epiepischnia pseudolydella* Amsel, 1954, Ark. Zool. 6 (16): 308-309, Pls., figs. Holotype  $\hat{\circ}$ : Iran: [Fars]: Sine-Sefid. Range (in code): TR IQ Shq Hjo IR Fa Sse Elb Th Kdj 06 13 46 65 71 06R 13A 13Ab 13Ax 13F 13F6 65A 65Am 65At 65At5 65D 65F 65Fp 65Fz Prep. no: GP2308 $\hat{\circ}$

Nocturnal, common in summer. Univoltine.

**350. *Epischnia christophori* Ragonot, 1887 Fig. 11, Map 27**

Synonym(s): *christophori* Ragonot, 1887; #*chrystophori* Noack, 1960. Original Reference: *Epischnia christophori* Ragonot, 1887, Annls Soc. ent. Fr. 1887: 238. Syntypes: [Turkey]: Kazikoparan; [Turkmenistan]: Nuchur. Range (in code): Ce TR TM Kp IR LB Bei 06 13 21 46 65 76 13F 13F6 65A 65Ai 65N 65Np2 65Nm 76C

Nocturnal, common in summer. Univoltine.

**351. *Epischnia illotella* Zeller, 1839 Map 28**

Synonym(s): *illotella* Zeller, 1839; *asteriscella* Millière, 1873; *alfacarella* Amsel, 1954; #*micronella* Roesler, 1969. Original Reference: *Epischnia illotella* Zeller, 1839, Isis 1839: 178. Type (s): Sicilia. Range (in code): DZ Bsk Ges TN Gf PT ES Mu FR Co Sa Si IT MT DE SK RO YU MK AL GR Cr RU MD UA BY TR KG Uk CY IL Pa LB Bsa Bmm EG 16 31 42 44 65 76 16A 31M 44L 44Lc 65A 65Ai 76A 76Aa

It occurs at various habitats of *Quercus* woodland, nocturnal. New to the fauna of Van Province.

**352. *Epischnia prodromella* (Hübner, [1799])**

Synonym(s): *prodromella* Hübner, [1799]; #*prodromella* Rebel, 1939. Original Reference: *Tinea prodromella* Hübner, [1799], Samml. eur. Schmett. 8, Tineae: Tab. 37 fig. 254. Type(s): Europa. Range (in code): DZ Bsk Ges TN Gf PT ES FR Si IT BE NL DE CH AT PL CZ SK HU RO YU AL BG GR Cr TR Cc AM SY IR Shh Gor Mz Elb IL Pa Hf LB CY TM Kp KG Uk RU MD UA BY 01 05 06 08 13 16 21 31 32 34 42 44 46 58 65 05A 08H 08Ha 13F 16A 21L 21Lc 31M 44L 44Lc 65A 65Am 65Am4 65D 65N 65Ne 65Ne4 65Nr7 65Nm

Nocturnal, uncommon in summer. Univoltine.

**353. *Episcythrasis* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Ab 65Aba Prep. no: GP2490 $\hat{\circ}$

**354. *Euchromius bellus* (Hübner, 1796) Map 29**

Synonym(s): *bella* Hübner, 1796; *bellalis* Hübner, [1825]. Original Reference: *Tinea bella* Hübner, 1796, Samml. eur. Schmett., Tineae: 29, Taf. 9 f. 60. Type(s): Ungarn. Range (in code): MA Ifr DZ Bsk ES An Mu FR Sa Si IT SK HU RO YU BG GR Cr TR RU Cc MD UA BY IQ Rzw Dia Brs Ama IR IL Pa JO Amm LB Bei EG PK Bl Chm 01 05 06 12 13 16 17 21 26 29 31 33 35 39 42 44 46 59 65 71 76 80 05A 12A 12Ab 13F 16A 16E 31O 31M 65A 65Am 65D 65Df 65Dv 76C Prep. no: GP1096 $\hat{\circ}$ , GP2405 $\hat{\circ}$

Nocturnal, common.

**355. *Euchromius superbellus* (Zeller, 1849) Map 30**

Synonym(s): *superbellus* Zeller, 1849; *wockeella* Zeller, 1863; *cypriusella* Amsel, 1958. Original Reference: *Crambus superbellus* Zeller, 1849, Stettin ent. Ztg. 10: 314. Holotype  $\hat{\circ}$ : Italien: Toscana. Range (in code): ES FR Co Sa Si IT AT? HU RO YU AL BG GR Cr RU MD UA BY TR Cc IL CY KG Uk UZ Br IR Elb Kdv Srd PK Pj 06 07 09 13 16 31 39 42 46 65 68 71 76 13F 16A 31M 65A 65Am 65Am4 65D 65Dv 65Du Prep. no: GP525 $\hat{\circ}$

Nocturnal, common.

**356. *Evergestis caesialis* (Herrich-Schäffer,[1849])**

Synonym(s): *caesialis* Herrich-Schäffer,[1849]; *saxicolalis* Mann,1862; *mellealis* Zerny,1936 Original Reference: *Botys caesialis* Herrich-Schäffer,[1849], Syst. Bearb. Schmett. Eur. 4: 115. Type ♀: [Croatia]: "Ragusa". Range (in code): MA Co? IT RO HV B-H MK Och YU BG GR Cr TR IR Elb Shh Th Kdv Plr Dam Ha Adv Fa Com LB Bsa TN Kp IQ Ama AF Pag Pnj 16 46 65 16A 65A 65Ai 65Am 65D 65Dt 65Du 65Dh 65Fz

Nocturnal, common.

**357. *Evergestis mundalis* (Guenée,1854)**

Synonym(s): *mundalis* Guenée,1854; *submundalis* Milliere,1882; *permundalis* Marion,1960 Original Reference: *Scopula mundalis* Guenée,1854, [in] Boisduval & Guenée, Hist. nat. Insectes (Spec. gén. Lépid.) 8: 389. Syntypes: [France]: "Environs de Digne". Range (in code): ES FR IT BG? GR TR 13 31 44 65 13F 31M 44E 44Ee 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65K 65Kz 65Kg 65N 65Np1 65Np2 65Nr2 65Nm

Nocturnal, uncommon.

**358. *Evergestis segetalis* (Herrich-Schäffer,1851)**

Synonym(s): *segetalis* Herrich-Schäffer,1851; *blandalis* Guenée,1854; *rubidalbalis* Turati,1907 Range (in code): DZ FR Si IT BG MK TR IR Elb Th Dam NSS Cc AZ Hkd 05 16 29 42 46 65 05A 16A 65A 65Ac 65Ac3 65B 65Bo 65Bx 65F 65Fr 65Fg

Nocturnal, uncommon.

**359. *Faveria* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Ab 65Aba Prep. no: GP2488<sup>↑</sup>, GP2503<sup>↑</sup>

**360. *Galleria mellonella* (Linnaeus,1758)**

Synonym(s): *mellonella* Linnaeus,1758; *cereana* Blom,1764; *cerella* Fabricius,1775; *cerea* Haworth,1811; *cerealis* Hübner,[1825]; *obliquella* Walker,1866; *austrina* R.Felder & Rogenhofer,1875; #crombruggheela Dufrane,1930. Original Reference: *Phalaena mellonella* Linnaeus,1758, Syst. Nat. (Edn.10)1: 537. Lectotype ♀: [Europa] (Robinson & Nielsen, 1983: 219). Range (in code): PT DZ Anna Sbd ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR TR DK NO SE FI EE LV LT RU MD UA BY IR Fa Th Elb Kdj LB IQ Agh IL Pa Hf EG Tls Ax Ik KK KG CY ZA AU TH MY SG Bor Sbh IN AE 01 05 06 07 13 16 34 38 42 46 51 65 80 05A 13F 16A 42B 65A 65An 65F 65Fs

Material studied: 1♀. Bahçesaray, Vasting 1600m (65An) 25 10 2016, M. Kemal & A.Koçak leg.  
Nocturnal, common at the places where beekeeping.

**361. *Glaucoccharis euchromiella* (Ragonot,1895) Map 31**

Synonym(s): *euchromiella* Ragonot,1895; *sinualis* Hampson,1900; *rebeli* Ostheder,1941. Original Reference: *Diptychophora euchromiella* Ragonot,1895, Bull. Soc. ent. Fr. 1895: xcix. Holotype ♂: [Turquie]: Akbes (MNHN). Range (in code): GR Cr TR Cc AM IR Th Elb 13 31 33 46 56 65 76 13F 31M 56F 65A 65Ai 65D 65Df 65Dv 65Du 65Fz 65K 65Kb 65L 76D 76Dd

**362. *Hellula undalis* (Fabricius,1781) Map 32**

Synonym(s): *undalis* Fabricius,1781; *lunulalis* Costa,1836; *alconalis* Walker,1859; *exemptalis* Walker,[1866]; *geyri* Rothschild,1915; *occidentalis* De Joannis,1930; *reniculus* Pajni & Rose,1977 Original Reference: *Phalaena undalis* Fabricius,1781, Spec. Ins. 2: 272. Type(s): Italia. Range (in code): TN Sfx PT ES FR Co Sa Si IT MT GB LU DE CH AT SK RO YU GR Cr YE IL Pa TR Sk IR Enz Qz Fa Bu Shr Sse Ss Irs Ana Ke Th Kdj Lgr Km CY LB Bei TM Kp JO IQ Bgd EG AF Hr Bmu Srb Gbh Dwe Bsg Bkt Kot PK Sd Krc Hw US SH IN LK CN PH Luz TW JP AE Cp Hf TH Cc GG Sok MY Bor BN Swk Sbh CV Md Cn AU QAu Bri Bth NSw Aby Gtn DZ Clo Bsk Gf 01 13 16 31 33 46 65 73 80 13F 16A 31A 31G 31K 31Ka 31Ka1 31M 65A 65Am 65N 65Nc 65Ne4 73A 73Ad 73Ad2

**363. *Homoeosoma sinuillum* (Fabricius,1794)**

Synonym(s): *sinuella* Fabricius,1794; *sinuatus* Fabricius,1794; *elongella* Hübner,[1813]; *gemina* Haworth,1811; *flavella* Duponchel,1836; *gioferella* Turati,1934. Original Reference: *Tinea sinuella* Fabricius,1794, Ent. Syst. 3(2): 308, nr.94. Type(s): Italia (Museum Kiel). Range (in code): TN DZ MA PT ES Cue Mu An Snv FR Co Sa IT

MT GB BE NL LU DE CH AT PL CZ SK HU RO YU B-H HV MK AL BG GR Cr TR DK SE FI EE LV LT RU MD UA BY CY LB KG KK Al IR Elb Th Kdj Clu Shh Glz TM Kp Cc AM Eri AF Hr Pli Blh 01 05 06 07 13 16 21 31 39 44 46 58 65 70 71 75 76 05A 13F 16A 21L 21Lc 31M 65A 65Au 65D 65Df 65Dl 65Dlc 65Fz 75F 75Fe 76C Prep. no: GP2211<sup>↑</sup>

### **364. *Hyperlais dulcinalis* (Treitschke,1835) Map 33**

Synonym(s): *dulcinalis* Treitschke,1835 Original Reference: *Pyrausta dulcinalis* Treitschke,1835, Schmett. Eur. 10 (3): 35-36. Type(s): "Ungarn". Range (in code): IT HU RO YU BG GR TR IR Ha Avd Kh Elb Kdj Sse LB Bsa Cc GG AZ Bjo Kir Tbl Nv Ord 05 06 13 46 65 70 71 76 05A 06R 13F 65A 65Am 65Am1 65D 65Dg 65F 65Fr 65L 65Lb 65N 65Np 65Np1 65Np2 65Np6 65Nm 76C

### **365. *Hypochalcia ahenella* ([Denis & Schiffermüller],1775) Figs. 55-57**

Synonym(s): *ahenella* [Denis & Schiffermüller],1775; *aeneella* Hübner,1796; *obscuratus* Haworth,1809; *tetrix* Haworth,1811; *ahenalis* Hübner,[1825]; *rubiginella* Treitschke,1833; *bistrigella* Duponchel,1836; *fuliginella* Duponchel,1836; *luridella* Schläger,1845; *ghilianii* Staudinger,1870; *fasciatella* Staudinger,1881; *hulstiella* Ragonot,1887; *griseoae nella* Ragonot,1887; *caucasica* Ragonot,1893; *lugubrella* M.Hering,1924; *robustella* Toll,1938 Original Reference: *Tinea ahenella* [Denis & Schiffermüller],1775, Ankiündung syst. Werkes Schmett. Wienergegend: 135. Neotype<sup>↑</sup>, [Austria]: Vienna district (illustrated by Leraut (2014: pl.46 fig.). Range (in code): PT ES FR IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR DK NO SE FI EE LV LT RU MD UA BY TR Cc AM IR Shh US Tx 05 06 13 16 65 76 05A 13F 16A 65A 65Ai 65D 65Du 65Dt 65F 65Fg 76C Prep. no: GP2474<sup>↑</sup>

It occurs at various habitats of Quercus woodland, nocturnal in the summer.

### **366. *Hypochalcia dignella* (Hübner,1796)**

Synonym(s): *dignella* Hübner,1796; *dignalis* Hübner,[1825]; *insuadella* Ragonot,1893 Range (in code): FR AT SK HU RO YU BG RU MD UA BY TR Cc AM KG Uk 65 76 65A 65Am 65Am4 65D 65Dn 76C

### **367. *Hypsopygia costalis* (Fabricius,1775) Map 34**

Synonym(s): *costalis* Fabricius,1775; *fimbrialis* [Denis & Schiffermüller],1775; *purpurana* Thunberg,1784; *hyllalis* Walker,1859; *rubrocilialis* Staudinger,1870; *#lugens* Rebel,1903; *syriaca* Zerny,1914; *lugens* Caradja,1917. Original Reference: *Phalaena costalis* Fabricius,1775, Syst. Ent.: 644, nr.132. Type(s): Anglia. Range (in code): DZ Orn PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR CY TR Cc DK NO SE FI EE LV LT RU MD UA BY IR Ab Sro Th Elb Mz Glz IL Hf Pa EG TM Kp UZ Fe PK IQ Shq Dia KG Tk Tks Nrk CN Ui 01 06 09 13 16 30 31 33 36 38 39 46 56 65 73 75 76 09K 09Ka 13A 13Aa 13B 13Ba 13F 16A 30D 30Dx 31M 33A 33Ac 36D 36Db 65A 65An 65D 65Dh 65Du 65Dv 65Fr 65L 65Lb 73A 73Ad 73Ad2 75F 75Fb

Nocturnal, common, and widely distributed species.

### **368. *Isauria dilucidella* (Duponchel,1836)**

Synonym(s): *dilucidella* Duponchel,1836; *ilignella* Zeller,1839; *laternella* Eversmann,1844; *crepusculella* Lederer,1870; *incredibilis* Staudinger,1879; *subsoritella* Ragonot,1887; *satanella* Ragonot,1887; *odontella* Ragonot,1893; *ledereri* Ragonot,1893; *cuencella* Caradja,1916; *galabitella* Chrétien,1931; *grisescens* Lucas,1950; *parvella* Amsel,1951; *shahidanella* Amsel,1970 Original Reference: *Phycis dilucidella* Duponchel,1836, Hist. nat. Lépid. Papillons Fr. 10: 184, Pl.278 fig.7. Type<sup>↑</sup>: France. Range (in code): DZ Bsk ES Cue FR Sa Si IT DE CH AT PL CZ SK HU RO YU BG GR TR RU Ur MD UA BY IQ Hjo LB Bsa IL Pa TM Kp IR Fa Th Kdj Shh Plr Mz Elb Dam Kz Com AF Sfk KG MN Cc AM GG Smt Akh AE 05 06 10 13 16 23 25 31 32 38 42 46 47 50 53 58 65 71 05A 10K 10Ka 13A 13Ab 13Ax 13F 13F20 13F35 13F38 13F40 16A 23I 23Lb 31K 31Ka 31Ka7 65A 65Ab 65Aba 65Ai 65D 65Du Prep. no: GP2230<sup>↑</sup>

Nocturnal, common in spring.

### **369. *Keradere lepidella* (Ragonot,1887) Map 35**

Synonym(s): *lepidella* Ragonot,1887 Original Reference: *Salebria lepidella* Ragonot,1887, Annls Soc. ent. Fr. 1887: 232. Type(s): [Turquie]: Asie Mineure: Marasch. Range (in code): YU GR TR Cc CY AM AZ Nv Ord GG LB Bsa IQ Hjo IR Ahz Kh Fa Sse Kdj 06 09 13 21 30 46 47 65 70 71 06K 06Kb 13F 13F35 21L 21Lc 30B 30Ba 65A 65Am 65Am1 65Am4 65D 65Dh 65Dn 65Du 65Dv 70A

Nocturnal, common in summer.

### **370. *Khorassania* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Ab 65Aba Prep. no: GP2484<sup>↑</sup>

### 371. *Lamoria sapozhnikovi* (Krulikovsky, 1909)

Synonym(s): *anella* Zincken nec [Denis & Schiff.]; *bipunctatus* Zeller, 1848 nec Curt.; *sapozhnikovi* Krulikovsky, 1909; *decolor* Caradja, 1910; *zelleri* Joannis, 1932 Original Reference: *Melissoblaptes bipunctatus* var. *sapozhnikovi* Krulikovsky, 1909, Revue russk. Ent. 8: 274. Type: [Russia]: Bachty. Range (in code): ES FR IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR DK NO SE FI EE LV LT RU MD UA BY IL Pa Hf LB Bei IR Mz ZA CN Ui Ku Mc JP LK IN 35 39 65 65A 65Ab 65Aba

New to the fauna of Van Province.

### 372. *Loxostege* sp.

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Am 65Am4 65D 65Dg 65Dga Prep. no: GP2483<sup>↑</sup>

### 373. *Mecyna biternalis* (Mann, 1862) Fig. 58

Synonym(s): *biternalis* Mann, 1862; *intermedialis* Caradja, 1916 Original Reference: *Botys biternalis* Mann, 1862, Wien. ent. Monatschr. 6: 385, Taf. 3 fig. 7. Type: Kleinasien [Turkey]: "Brussa" [Bursa]. Range (in code): BG TR 13 16 47 65 13F 13F11 13F35 13F38 13F41 16A 65A 65Am 65Am4 Prep. no: GP2510<sup>↑</sup>.

Nocturnal, common. For precise identification, genital preparation is necessary. New to the fauna of Van Province.

### 374. *Mecyna subsequalis* (Herrich-Schäffer, 1855)

Synonym(s): #*subsequalis* Herrich-Schäffer, 1851; *subsequalis* Herrich-Schäffer, 1855; *consequens* Meyrick, 1932 [nom.n.] Original Reference: *Botys subsequalis* Herrich-Schäffer, 1855, Syst. Bearb. Schmett. Eur. 6: 141, pl. 19 fig. 133. Type: Armenia. Range (in code): BG GR Cr TR Cc GG Bjo AZ Nv Ord IR Elb Kdv Mz Dam Gor o1 o5 o6 13 30 31 33 42 44 46 56 58 65 76 05A 06R 13F 13F01 13F35 13F38 13Gü 13Gw 30B 30Bc1 30Bx 31K 31Ka 31Kaz 44E 44Eh 56F 56Fs 56Fs1 65A 65At 65At5 65Ab 65Aba 65B 65Bo 65Bx 65D 65Dh 65Dv 65Dt 65F 65Fz 76C 76D 76Dd

Nocturnal, common. For precise identification, genital preparation may be necessary. However, it may be easily confused with *lutulentalis* Led. Still, these two taxa couldnot be identified from each other.

### 375. *Mecyna trinalis* ([Denis & Schiffermüller], 1775) Fig. 12

Synonym(s): *trinalis* [Denis & Schiffermüller], 1775; *andalusica* Staudinger, 1879; *tripunctalis* Oberthür, 1887; *anienalis* Hartig, 1941; *joannialis* Marion, 1955; *maroccanensis* Amsel, 1956 Original Reference: *Pyralis trinalis* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Gegend: 317. Type(s): [Austria]: Vienna district. Range (in code): MA Rf DZ Lbs Anna Agi ES Mu FR Si IT AT CZ SK HU RO YU AL BG GR TR Cc IQ Hjo Mos IR Elb Kdv Plr Mz Gor Ha Adv UA Cc GG Bjo MN 05 06 08 13 23 29 30 44 46 56 61 65 73 76 05A 06R 06Rb 08H 08Hc 13F 13F6 30B 30Bc1 30Bx 44L 44Lc 56F 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65At 65At5 65B 65Bo 65Bx 65D 65Df 65Dh 65Dt 65K 65Kd 65Ké 65N 65Np2 65Nm 73A 73Ad 73Ad1 76C 76D 76Dd

### 376. *Megasis* (s.str.) *kocaki* Akin, 2016

Synonym(s): *kocaki* Akin, 2016 Original Reference: *Megasis kocaki* Akin, 2016, Zool. Middle East 62 (1): 1-3. Holotype<sup>↑</sup>: Turkey, Bitlis Prov., Mutki district, Yeniköy 1650m, 18 v 2012, leg. & coll. K.Akin. Range (in code): TR 13 65 13F 13G 13Gs 13Gw 65A 65Ai 65D 65Dg 65Dga 65N 65Np 65Nm Prep. no: GP2045<sup>↑</sup> (Paratype), GP2243<sup>↑</sup>.

Nocturnal, local and uncommon in the spring. Apparently confined to the mountainous region of SE Turkey.

### 377. *Merulempista cingillella* (Zeller, 1846) Figs. 59-61, Map 36

Synonym(s): *cingillella* Zeller, 1846; *myricariella* Millière, 1864; *azrounella* D.Lucas, 1933; *hartigi* Roesler, 1967 Original Reference: *Pempelia cingillella* Zeller, 1846, Isis 1846: 779-780. Type: "Ungarn" (Kindermann). Range (in code): MA Azr ES FR Si IT DE CH AT SK YU HV B-H AL RO IL Jt Pa Hf TR RU Cc GG Lag IR Ss Irs UA AF Hr CN Ui IMn NHu Hph o1 o5 16 65 05A 65A 65Am 65Am4 Prep. no: GP2478<sup>↑</sup>.

Nocturnal and uncommon. New to the fauna of Van Province.

**378. *Metallosticha argyrogrammos* (Zeller, 1847)**

Synonym(s): *argyrogrammos* Zeller, 1847 Original Reference: *Myelois argyrogrammos* Zeller, 1847, Isis 1847: 29-30. Type ♂: [Turkey]: Makri [=Fethiye]. Range (in code): Si IT RO HV MK Och BG GR TR LB Bsa Bei SY Dms IL Hf Pa IR Fa Shr 05 06 13 16 21 31 38 42 45 46 48 56 65 70 05A 06R 13A 13Ab 13Ax 16A 21L 21Lc 31M 56Fb 65A 65Am 65Am4 65D 65Df 65Du 65Dh 65Fz

Nocturnal and uncommon.

**379. *Metasia ophialis* (Treitschke, 1829) Fig. 13**

Synonym(s): *ophialis* Treitschke, 1829; *legrandi* Leraut, 2001 Original Reference: *Botys ophialis* Treitschke, 1829, Schmett. Eur. 7: 90. Type(s): Ungarn. Range (in code): PT ES FR Co Si IT CH AT CZ SK HU RO B-H YU AL BG GR Cr TR CY 01 05 16 44 46 56 65 05A 16A 56F 56Fb 65A 65Ai 65D 65Df 65Fz

Nocturnal and uncommon.

**380. *Myelois (Gnathogutta) circumdatella* Lederer, 1858**

Synonym(s): *circumdatella* Lederer, 1858; *ottoella* Schawerda, 1924; *quinquepunctella* Turati, 1934; *cinnerethella* Amsel, 1935 Original Reference: *Myelois circumdatella* Lederer, 1858, Wien. ent. Monatschr. 2: 149, Taf. 4 fig. 5. Syntypes 3♂: Syrien: Damask. Range (in code): LY Cy TR SY Dms IL Pa Hf Js LB IQ Shq Hjo Mos IR Fa Sse Shr Th Elb Kdj 01 13 21 31 46 49 65 13F 31M 49F 49Fb 65A 65An 65Am 65Am1 65Am4 65D 65Du 65Dh 65N 65Nr7 65Np1 65Nm

Nocturnal and common.

**381. *Myelois (Gnathogutta) pumicosa* Lederer, 1855 Figs. 14, 15**

Synonym(s): *pumicosa* Lederer, 1855 Original Reference: *Myelois pumicosa* Lederer, 1855, Verh. zool.-bot. Ges. Wien 5: 252-253. Syntypes 2♂: [Türkei]: "Diarbekir". Range (in code): TR LB IQ Hjo Dy 13 21 46 56 65 13F 21F 56F 56Fs 56Fs1 65A 65Am 65Am1 65Am4 65D 65Ds 65F 65Fg Prep. no: GP2236♂, GP2237♀

Nocturnal and uncommon.

**382. *Myelois (s.str.) circumvoluta* (Fourcroy, 1785)**

Synonym(s): *circumvoluta* Fourcroy, 1785; *circumvolutella* Villers, 1789; *cribrella* Hübner, 1796; *carhdui* Haworth, 1811; *medullalis* Hübner, [1825]; *pallium* Vallot, 1829; *gilvescentella* Fuchs, 1903; *britannicella* Amsel, 1951; *impunctata* Hartig, 1952; *nigrapeza* Hartig, 1952 Original Reference: *Tinea circumvoluta* Fourcroy, 1785, Ent. Paris: 326. Type(s): Paris. Range (in code): DZ Ges Lbs PT ES FR Co Sa Si IT GB BE NL DE CH AT PL CZ SK HU RO YU AL BG GR TR DK SE FI EE LV LT RU MD UA BY IR Mz 01 06 13 17 21 31 33 36 49 65 71 73 80 06R 06Rd 13F 21L 21Lc 31M 36D 36Db 49F 49Fb 65Am 65Am 65Am1 65Am4 65D 65Dh 65Ds 65Dv 65Du 65K 65Kd 65Kg 65N 65Np1 65Nm 73D 73Df

Nocturnal and uncommon.

**383. *Myrlaea albistrigata* (Staudinger, 1881) Fig. 16, Map 37**

Synonym(s): *albistrigata* Staudinger, 1881 Original Reference: *Pempelia albistrigata* Staudinger, 1881, Horae Soc. ent. ross. 16: 86. Syntypes 2♂♀: [Türkei]: Amasia. Range (in code): TR Cc LB Bsa IR Elb Mz Kdv Plr Shh IQ Ry Hjo AF Pag 05 06 13 30 42 46 47 56 65 71 76 05A 13A 13Ab 13Ax 13F 13F6 30B 30Bc1 30Bx 42B 56F 56F1 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65B 65Bo 65Bx 65D 65Dh 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 76C

Nocturnal and common especially in the tragacanthic mountain steppe formations.

**384. *Nomophila noctuella* ([Denis & Schiffermüller], 1775) Map 38**

Synonym(s): *noctuella* [Denis & Schiffermüller], 1775; *hybridalis* Hübner, 1796; *indistinctalis* Walker, 1859 Original Reference: *Tinea noctuella* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 136. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): MA DZ TN Sfx Elk PT ES FR Co Sa Si IT MT IS IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR IQ Bgd Dia Shq Amr Kro Bji IR Ahz Ab Elb Dam Plr Mz Enz LB Bsa Bei SY IL Pa Hf AF Hr Bmu Anj Gz Jla Kot PK Mre DK NO SE FI EE LV LT RU MD UA BY PH TW AE Cp Haz Abb C-P Cte ID IN ZA Sro Qba Gea Bsk Onç Ceg Heh Ogl Gle Omy Gtt Ah Ajj Ges Rhr 01 05 06 08 11 13 14 16 17 21 30 31 32 33 34 35 37 38 39 44 46 48 49 55 56 58 60 63 65 71 73 76 80 05A 06R 08H 08Ha 13A 13Ab 13Ax 13B 13Ba 13F 13F6 13G 13Gö 13Gö 13Gw 13Gü 13Gs 16A 21N 21Nb 21Nc 30B 30Bc1 30Bx 30Br 31A 31H 31M 33A 33Ad 44L 44Lc 48L 49F 49Fb 49Ff 55F 56D 56Dc 56F 56Fo 58G 60G 63D 65A 65Ai 65An 65Am 65Am1 65Am2 65Am3 65Ab 65Aba 65D 65Da 65Dd 65Dda 65Df 65Dh 65Dg 65Dl 65Dlc 65Dr 65Dt 65Du 65Dv 65E 65Eb 65Ec 65Ed 65F 65Fb 65Fc 65Fd 65Fp 65Fw 65Fz

65G 65Gf 65Gn 65N 65Nc 65Nc<sub>4</sub> 65K 65Kb 65Kç 65Kl 65Ku 65Ky 65Ky<sub>1</sub> 65L 65Lb 65M 65Mc 65Md 65N 65Nk 65Np 65Np<sub>1</sub> 65Np<sub>2</sub> 65Nm 73A 73Aç 73Aç<sub>2</sub> 73D 73Db 73Df 73Dfb 73Dfc 76B 76Bç 80B 80Bç 80E 80Ea Prep. no: GP783<sup>↑</sup>, GP2324<sup>♀</sup>, GP2325<sup>♀</sup>

One of the commonest species in the district, diurnal to nocturnal, from spring to late autumn.

### **385. *Nyctegretis lineana* (Scopoli, 1786)**

Synonym(s): *lineana* Scopoli, 1786; *achatinella* Hübner, [1824]. Original Reference: *Phalaena lineana* Scopoli, 1786, Del. Flora Faun. Insub. 2: 57, Tab. 21 fig. vi A, B. Range (in code): ES FR Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU GR TR Cc DK NO SE FI EE LV LT RU MD UA BY Ur LB IL IQ IR Mz Elb CN Ui Ku Shs AF KG UK TM Kp MN 06 07 13 16 21 31 33 34 46 48 65 71 76 13A 13Ab 13Ax 13F 16A 31M 48L 65A 65Ai 76C

It occurs at various habitats of *Quercus* woodland, nocturnal in the summer. New to the fauna of Van Province.

### **386. *Oncocera amoenella* (Zeller, 1848) Fig. 17, Map 39**

Synonym(s): *amoenella* Zeller, 1848; *erberi* Mann, 1867 Original Reference: *Acrobasis amoenella* Zeller, 1848, Isis 1848: 609-610. Type(s): "die europäische Turkey (Metzner)". Range (in code): IT HV RO YU AL MK GR TR Arr Cc AM IR Gl CN Ui Ku Ga AF TM TJ KG Ao At MN UZ 13 24 36 39 56 65 76 13F 24L 36D 36Db 56F 56F<sub>1</sub> 65A 65Ai

It occurs at various habitats of *Quercus* woodland, nocturnal in the summer. New to the fauna of Van Province.

### **387. *Oncocera semirubella* (Scopoli, 1763)**

Synonym(s): *semirubella* Scopoli, 1763; *rosella* Goeze, 1783 nec *Sc.*, 1763; *purpurella* Thunberg, 1788; *sanguinella* Hübner, 1796; *sanguinea* Haworth, 1811; *nigrella* Caradja, 1916 Original Reference: *Phalaena semirubella* Scopoli, 1763, Ent. Carn.: 245. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): DZ Cst PT ES FR Co Sa Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU BG GR Cr CY LB IL Pa Hf TR Cc IQ Amr Shq AF Hr CN JP DK NO SE FI EE LV LT RU Am MD UA BY KP KR TW IR Enz Mz Kh CN Ui Tek Kty 01 05 06 07 08 09 13 14 16 17 26 31 33 36 46 48 56 65 71 75 76 80 81 05A 06R 06Rd 07B 07Bb 08H 08Ha 13F 16A 31A 31G 31O 31M 36D 36Db 48L 56F 65A 65Ai 65D 65Dv 65F 65Fç 65Fz 75F 75Fb 75Fd

It occurs at various habitats of *Quercus* woodland, and mountain steppe. Diurnal to nocturnal in the summer.

### **388. *Paracorsia repandalis* ([Denis & Schiffermüller], 1775) Map 40**

Synonym(s): *repandalis* [Denis & Schiffermüller], 1775 Original Reference: *Pyralis repandalis* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 120. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): PT ES FR Co Sa IT MT GB BE LU DE CH AT PL CZ SK HU RO YU BG GR Cr AZ Nv Ord IR Th Kf Fa TM Kp RU MD UA BY AF Kot Srb Bsg Pag Bm US Idp 05 06 13 16 31 38 42 44 45 46 65 70 76 05A 06R 13A 13Ab 13Ax 13F 16A 31K 31Ka 31Ka3 31Ka5 44I 44Ic 44L 44Lc 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Df 65Dh 65Dg 65Dt 65F 65Fp 65Fz 65N 65Np2 65Nm 70C 70Ce 76C

It occurs at various habitats of *Quercus* woodland, and mountain steppe. Nocturnal and common in the summer.

### **389. *Pediasia matricella* (Treitschke, 1832) Figs. 18, 62-64, Map 41**

Synonym(s): *matricella* Treitschke, 1832; *obscura* Caradja, 1931; *stenopterella* Amsel, 1949 Original Reference: *Phycis matricella* Treitschke, 1832, Schmett. Eur. 9(1): 171. Type<sup>↑</sup>: Ungarn. Range (in code): IT AT HU RO YU MK Och BG GR TR RU MD UA BY KG JO IL IQ Mos TM IR 01 05 06 13 23 33 42 46 50 58 65 71 05A 13F 23C 65A 65Am 65Am4 65F 65Fm 65N 65Nc 65Nc<sub>4</sub> Prep. no: GP523<sup>↑</sup>, GP2481<sup>↑</sup>

It occurs at various habitats of the mountain steppe. Nocturnal and autumnal, univoltine.

### **390. *Pempelia alpigenella* (Duponchel, 1836)**

Synonym(s): *alpigenella* Duponchel, 1836; *albariella* Zeller, 1839; *wagnerella* Freyer, 1845; *dilucida* Staudinger, 1879; *persica* Osthelder, 1938; *ardekanella* Amsel, 1951 Original Reference: *Phycis alpigenella* Duponchel, 1836, Hist. nat. Lépid. Papillons Fr. 10: 208, pl. 280, fig. 7. Syntypes: "Alpe". Range (in code): FR IT HV IT Si SK Cm RO YU MK Och AL BG GR TR Cc HU RU Sr MD UA IR Fa Com Sse Kdj Elb Mz Kdv 05 06 25 33 42 44 46 65 70 76 05A 06K 06Kb 25N 25Na 33A 42B 44L 44Lc 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Dt 65Du 65F 70C 70Ce Prep. no: GP2339<sup>↑</sup>

It occurs at various habitats of the mountain steppe. Nocturnal, univoltine. Locally common in the summer.

**391. *Pempelia brephiella* (Staudinger, 1879)**

Synonym(s): *brepheilla* Staudinger, 1879; *farinosella* Caradja, 1910. Original Reference: *Nephopteryx brephiella* Staudinger, 1879, Horae Soc. ent. ross. 15: 191-192. Syntypes  $\hat{\oplus}\hat{\ominus}$ : Macedonien. Range (in code): Cn MA DZ Ah Onç Lbs Bsk Gha Gea Ges TN Gf Gab PT ES Cue FR Co Sa Si MT YU MK BG TR CY IL Pa Cc AZ Len 09 21 42 46 65 71 21L 21Lc 65A 65Am 65Am4 Prep. no: GP2199♀

It occurs at various habitats of the mountain steppe. Nocturnal, univoltine. New to the fauna of Van Province.

**392. *Pempeliella ornatella* ([Denis & Schiffermüller], 1775)**

Synonym(s): *ornatella* [Denis & Schiffermüller], 1775; *criptella* Hübner, 1796; *criptea* Haworth, 1811; *ornatalis* Hübner, 1825; *fraternella* Ragonot, 1887; *gigantella* Amsel, 1932; *aixella* Lucas, 1938; *elbursella* Amsel, 1954 Original Reference: *Tinea ornatella* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 319. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): DZ Lbs ES FR Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU ÁL BG GR TR ÁZ Nv DK SE FI EE LV LT RU CN Ui Ku Ju UZ Man MD UA BY Cc AM T-S MA o6 46 58 65 76 65A 65Ab 65Aba 65D 65Df 65F 65Fp 65Fz 76C Prep No: GP2486♂

It occurs at various habitats of the mountain steppe. Nocturnal, univoltine. Common in the summer.

**393. *Pempeliella sororiella* (Zeller, 1839) Figs. 65-67**

Synonym(s): *sororiella* Zeller, 1839; *marilella* Guenée, 1845; *jucundella* Mann, 1864; *satureiella* Millière, 1873; *soroculella* Ragonot, 1887; *albicostella* Amsel, 1958; *iranella* Roesler, 1969; *klimeschi* Roesler, 1969; #*minima* Roesler, 1969 Original Reference: *Pempelia sororiella* Zeller, 1839, Isis, Oken 32: 179. Type: Ungarn. Range (in code): DZ Bsk PT ES Py FR Co Sa Si IT MT CH AT HU SS YU AL BG GR Cr TR IR Fa Shr Elb Mz IL Pa Hf o6 13 16 21 34 42 46 65 06R 13F 13F11 13F35 13F41 16A 21L 21Lc 65A 65Ai 65D 65Df 65F 65Fp 65Fz 65N 65Np2 65Nm Prep. No: GP2516♂

It occurs at various habitats of the mountain steppe. Nocturnal, univoltine.

**394. *Phlyctaenomorpha sinuosalis* (Le Cerf, [1910]) Fig. 19, Map 42**

Synonym(s): *sinuosalis* le Cerf, [1910]; *platyphaea* Meyrick, 1937. Original Reference: *Phlyctoenodes* [sic!] *sinuosalis* le Cerf, [1910], Bull. Mus. natn. Hist. nat. Paris 3 (8) (1909): 536. Type  $\hat{\oplus}$ : [Iran]: Perse: Ab-e-bid. Range (in code): IQ Ama Dk Hjo Ry IR Fa Com Sse TR o7 30 56 65 73 30B 30Bc1 30Bd 30Bx 30C 30Cd 30D 30Dp 30Dx 56F 56F1 56Fm 56Fs 56Fs1 65A 65Ac 65Ac3 65Ai 65Am 65Am3 65Am4 65D 65Dd 65Df 65Dh 65Du 65Dv 65Dt 65F 65Fg 65Fm 65Fp 65Fz 73A 73Ad 73Ad2 73D 73Df Prep. no: GP2323♂

It occurs at various habitats of the mountain steppe. Nocturnal, very common in the summer.

**395. *Phycita* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Am 65Am4 Prep No: GP2485♂

**396. *Phycita kurdistanella* Amsel, 1954 Figs. 68-70**

Synonym(s): *kurdistanella* Amsel, 1954 Original Reference: *Phycita kurdistanella* Amsel, 1954, Ark. Zool. 6 (16): 293, figs. 118-120, 235. Monotype  $\hat{\oplus}$ : [Türkei, Van Province]: "Kurdistan, Wan, 1800m, 28.8.35, ex Coll. Osthelder (Coll. Amsel)". Range (in code): TR 65 65A 65Ab 65Aba Prep No: GP2487♂

It occurs at various habitats of the mountain steppe. Nocturnal, uncommon, univoltine.

**397. *Phycita poteriella* (Zeller, 1846) Figs. 71-73, Map 43**

Synonym(s): *poteriella* Zeller, 1846; *metzneri* Zeller, 1846; *kruegeri* Turati, 1911 Original Reference: *Nephopteryx poteriella* Zeller, 1846, Isis von Oken 1846: 743-745. Type  $\hat{\oplus}$ : "europäische Turkey". Range (in code): ES FR Co Sa Si IT RO HU YU BG GR Cr CY TR IL Pa Hf LB Bmm Bsa o6 09 16 31 35 42 46 65 16A 31M 65A 65Ai

Material studied: 2 $\hat{\oplus}$ . Bahçesaray, Paşaköy 1600m, 4 8 2016, M. Kemal & A. Koçak leg. Prep No: GP2495♂, GP2518♂.

It occurs at various habitats of the *Quercus* woodland. Nocturnal, uncommon, univoltine. New to the fauna of Van Province.

### **398. *Phycita spissicella* (Fabricius,1777) Figs. 74-76, Map 44**

Synonym(s): *#roborella* [Denis & Schiffermüller],1775; *spissicella* Fabricius,1777; *spissicornis* Fabricius,1798; *roboralis* Hübner,[1825]. Original Reference: *Tinea spissicella* Fabricius,1777, Genera Insectorum: 295. Type(s): Germany, Kiel. Range (in code): DZ Lbs PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR LB Bsa DK NO SE FI EE LV RU MD UA BY IR Gl 06 13 56 65 06R 13F 13F01 13F38 56F 56Fb 65A 65Ai Prep No: GP2494<sup>↑</sup>

Like the previous species. New to the fauna of Van Province.

Remark: The name “*roborella*” was proposed by [Denis & Schiffermüller] in 1775 as *nomen nudum*, without description; therefore it is unavailable nomenclaturally. Such cases on the Denis & Schiffermüller’s names have been revealed by Koçak (1982-1987)<sup>11</sup>.

### **399. *Phycitodes albatella* (Ragonot,1887) Figs. 77-79, Map 45**

Synonym(s): *albatella* Ragonot,1887; *parvum* Gerasimov,1930; *pseudonimbella* Bentick,1937 Original Reference: *Homoeosoma albatella* Ragonot,1887, Annls Soc. ent. Fr. 1887: 255. Syntypes: [Usbekistan]: Samarkand; [Turkmenistan]: Nuchur. Range (in code): LY Cy TN Gf DZ MA Cn Az PT ES Mu FR Co Sa Si IT BE NL LU DE CH AT PL CZ SK HU RO YU HV MK AL BG GR DK NO SE FI LV LT RU MD UA BY TM Kp UZ Smk Br LB Bei Bsa SY Dms IL Hf Jer Jf Jt Pa EG CY TR IQ Bsr IR Elb Th Kdj AF Kbb Slg Pli Hr Srb Kab Sen Ch Gg PK TJ KK NP Us CN She 01 03 06 13 16 21 38 42 44 46 65 70 71 06R 13F 16A 65A 65Ai 65D 65Dv 65Du 65Dt 70A 70Ac Prep. no: GP733<sup>↑</sup>, GP2514<sup>↑</sup>

It occurs at various habitats of the *Quercus* woodland. Nocturnal.

### **400. *Plodia interpunctella* (Hübner,[1813])**

Synonym(s): *interpunctella* Hübner,[1813]; *interpunctalis* Hübner,[1825]; *zeae* Fitch,1856; *castaneella* Reutti,1898; *latercula* Hampson,1901; *glycinivora* Matsumura,1917; *glycinivorella* Matsumura,1932. Original Reference: *Tinea interpunctella* Hübner,[1813], Samml. eur. Schmett. 8, Tineae: Tab.45 fig.310. Type(s): Europa. Range (in code): Cn MA DZ Bsk Anna LY Cy TN Gf PT ES B-I Md FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU HV B-H MK AL BG GR Cr TR EG DK NO SE FI EE LV LT RU Sb Ur Am KP KR MD UA BY LB IL Pa SD SA IQ IR Ab Oru TM AF PK KG Uk CN Ui Kgs Stg JP Hkk TW ZA AU CA 01 05 06 16 33 35 48 65 05A 16A 48L 65A 65At 65At5 65D 65Dh 65N 65Ne 65Ne4

It occurs at various habitats, including anthropogene places. Pest on the dried food materials.

### **401. *Polyocha* sp.**

Its identity and taxonomic evaluation will be published separately.

### **402. *Polyocha transversariella* (Zeller,1848) Figs. 80-82, Map 46**

Synonym(s): *transversariella* Zeller,1848; *strigosa* Staudinger,1879; *phoeniciella* Ragonot,1895; *discella* Hampson,1901; *granatella* Zerny,1927 Original Reference: *Anerastia transversariella* Zeller,1848, Isis 1848: 588-589. Type: Italia, Sicilia, Ragusa [nomenclaturally available name]. Range (in code): MA DZ Ah TN PT ES An Grn IT Si RO YU GR RU MD UA BY TR Cc IL Pa Hf LB Bei JO IQ Shq Rwz Mos Dia IR Fa 01 05 13 16 21 25 31 33 42 46 47 65 71 76 80 05A 13A 13Ab 13Ax 13F 13F6 16A 31M 42B 47D 65A 65Ab 65Aba 65Ac3 65D 65Dv 65Dt 65Du 65N 65Np2 65Nm 76C Prep. no: GP2431<sup>↑</sup>, GP2512<sup>↑</sup>, GP2513<sup>↑</sup>

Remark: Application of the name *strigosa* Stgr.,1879 as a valid name is simply Leraut’s (2014: 89) personal preference. If the both names, *strigosa* Stgr.,1879 and *transversariella* Zeller,1848 are synonyms, the latter one is nomenclaturally available; therefore it must be considered as valid name according to the universal article 23.1 of the ICBN Code.

### **403. *Psammotis pulveralis* (Hübner,1796)**

<sup>11</sup> Many scientists discuss today the case: “Photography-based taxonomy”, harmful for biological sciences by Ceriaco,L.M.P., Gutiérrez,E.E. & A.Dubois, 2016, Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. Zootaxa 4196 (3): 435-445.  
Many Denis & Schiffermüller’s names in the Lepidopterology were published **without description**, simply as *nomen nudum*, and they are currently **used as valid name** (!). Are the valid *nomina nuda* less harmful than the photography-based names in the biological sciences?

Synonym(s): *pulveralis* Hübner,1796 Original Reference: *Pyralis pulveralis* Hübner,1796, Samml. eur. Schmett. 6, Pyralides: Tab.17 fig.109. Type(s): Europa. Range (in code): ES FR Co Sa IT GB NL LU DE CH AT PL CZ SK HU RO YU AL BG GR DK TR IQ Ry LB Bsa NO SE FI EE LV LT RU MD UA BY IR Elb Kdv Gor Shh Fa Sse Ha Yz Kh KG Tk Dj Ii AF Slg Shah Kot Adr Shv Pag 05 06 13 16 42 45 65 71 05A 06B 06R 13F 16A 65A 65At 65At5 65D 65Dd 65Dda 65Df 65Fz 65K 65N 65Np7 65Np8 65Nm Prep. no: GP967<sup>♂</sup>

It occurs at various habitats of the mountain steppe. Nocturnal.

#### **404. *Psorosa maraschella* Caradja,1910 Figs. 83-85, Map 47**

Synonym(s): *maraschella* Caradja,1910; *majorella* Roesler,1970 Original Reference: *Psorosa maraschella* Caradja,1910, Dt. ent. Z., Iris 24: 128. Syntypes 26 ♂♀: [Türkei]: Marasch (coll. Caradja). Range (in code): TR IR Elb Mz Th Kdj Ke Fa Sse NSS MN 05 13 46 65 05A 13F 13F01 13F6 13F11 13F20 13F35 13F38 13F41 13F42 46G 46Gi 65A 65Am 65Am1 65Am4 65D 65Df 65N 65Np2 65Nm 65K Prep No: GP2489<sup>♂</sup>, GP2508<sup>♂</sup>.

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **405. *Psorosa* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Am 65Am3 65Am4 Prep. no: GP2509<sup>♂</sup>, GP2515<sup>♂</sup>.

#### **406. *Pterothrixidia rufella* (Duponchel,1836)**

Synonym(s): *rufella* Duponchel,1836; *impurella* Duponchel,1837; *luridatella* Herrich-Schäffer,1847; *infuscatella* Herrich-Schäffer,1849; *corsicella* Ragonot,1893; #*pallida* Leraut,2014; *rungsella* Leraut,2014 Original Reference: *Phycis rufella* Duponchel,1836, Hist. nat. Lépid. Papillons Fr. 10: 170, pl.277 fig.6. Type(s): France, Corse. Range (in code): MA Ifr PT ES Mu FR Co Sa IT MT CH HU RO YU AL BG GR AM Eri Cc TR 05 13 45 44 46 47 32 58 65 70 05A 13A 13Ab 13Ac 13Ax 13F 13F6 44L 44Lc 65A 65Ac 65Ac3 65Ab 65Aba 65D 65Df 65Dt 65Fz 65N 65Np1 65Np2 65Nm 70A 70Ab Prep. no: GP748<sup>♂</sup>, GP749<sup>♂</sup>

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **407. *Pyralis kacheticalis* (Christoph,1893)**

Synonym(s): *kacheticalis* Christoph,1893; *imperialis* Caradja,1916 Original Reference: *Asopia kacheticalis* Christoph,1893, Dt. ent. Z., Iris 6: 96. Syntypes: "Eldar, Muganlı, Transcaucas.". Range (in code): Cc Da RU GG AZ AM UA Cm TR TM Kp IR Fa Sse Ss Th Elb Kdj IQ Brs Ssa 01 05 06 07 13 21 33 44 56 65 01H 07B 07Bb 13F 21N 21Nb 33A 33Ad 44I 44Ic 56F 56F1 56Fm 56Fö 65A 65Ai 65D 65Dl 65Dlc 65Du 65Dv

It occurs at various habitats of Quercus woodland. Nocturnal in the summer.

#### **408. *Pyralis perversalis* (Herrich-Schäffer,[1849])**

Synonym(s): *lucidalis* Eversmann,1844 (praeocc.); *perversalis* Herrich-Schäffer,[1849]; *narynensis* Zerny,1914; *rubiginetincta* Caradja,1931; #*naryssensis* Amsel,1961 Original Reference: *Asopia perversalis* Herrich-Schäffer,[1849], Syst. Bearb. Schmett. Eur. 4: 123. Type: Russia: Ural. Range (in code): CZ HU RO RU Ur MD UA BY TR Cc GG Ord Kir AZ Nv KG Tk Nrk CN Ui Ku IR Elb Mz Kh LB Bsa 13 25 42 65 76 13A 13Ab 13Ax 13F 65A 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Fz 65N 65Nf 65Nm 65Np2 65Nm 76C

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **409. *Pyrasia gutturalis* (Staudinger,1879) Fig. 20, Map 48**

Synonym(s): *gutturalis* Staudinger,1879 Original Reference: *Botys gutturalis* Staudinger,1879, Horae Soc. ent. ross. 15: 175. Type ♂: [Türkei]: Magnesia (coll. Lederer). Range (in code): TR LB Bsa IQ Hjo IR Fa Shr Sse Com Elb Mz 01 07 13 21 31 45 46 47 56 65 07O 13F 21L 21Lc 21Nb 31M 46G 46Gi 56F 56Fa 65A 65An 65Am 65Am1 65Am4 65D 65Df 65Dh 65Ds 65Du 65Dv 65N 65Np6 65Nm Prep. no: GP519<sup>♂</sup>, GP764<sup>♀</sup>

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **410. *Pyrausta aerealis* (Hübner,1793)**

Synonym(s): *aerealis* Hübner,1793; *ablatalis* Eversmann,1844; *wockei* Rebel,1902; *unicolor* Rebel,1917. Original Reference: *Phalaena aerealis* Hübner,1793, Samml. auserl. Vögel Schmett.: 7, pl.20. Range (in code): DZ Btta Tou ES FR IT DE CH AT PL RO YU AL BG GR TR Ce GG Lag DK SE FI EE LV LT RU Ur KG UK MD UA BY IR Fa Elb Dam Kdv Mz TM UZ KK Al Tk Dj Ii CN Ui Ju Au Kml AF Shv Pag LB Bsa 05 13 31 46 65 70 72 76 05A 13G 13Gd 13F 31E 46G 46Gi 65A 65Ac 65Ac3 65Ai 70A 70Ab 72E 72Eh 76C Prep. no: GP768<sup>♂</sup>, GP804<sup>♂</sup>

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **411. *Pyrausta amatalis* Rebel,1903 Map 49**

Synonym(s): *amatalis* Rebel,1903 Original Reference: *Pyrausta amatalis* Rebel,1903, Annln naturh. Mus. Wien 18: 307, Taf.3 fig.12. Syntypes ♂♀: [Türkei]: Amasia; Bulgarien: Slivno. Range (in code): BG Slv SY TR Cc GG Akh 05 46 65 05A 46G 65A 65Am 65Am3 65D 65Dè 65Dn 65Df 65F 65Fb 65Fz

It occurs at various habitats of the mountain steppe. Diurnal, very rare in the summer.

#### **412. *Pyrausta aurata* (Scopoli,1763) Fig. 21**

Synonym(s): *aurata* Scopoli,1763; *punicealis* [Denis & Schiffermüller],1775; *niepoldalis* Lederer,1863; *meridionalis* Staudinger,1880 nec Wcke,1871; *deficiens* Dufrane,1957; *incipiae* Koçak,1982 Original Reference: *Phalaena aurata* Scopoli,1763, Entomologia Carniolica: 227. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): Cn MA DZ TN PT ES FR Co Sa Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr LB Bsa IL Pa CY TR IR Fa Yz Elb Kdj Th Ana Ke Ab Sro Enz Gh Kh Tgo Glz IQ Dia Rzw Shq DK NO SE FI EE LV LT RU MD UA BY AF Srb Pli Arh Hr Kot Fz Khi Kab Dwe Cc GG Bjo Mng Nv Ord Hkd Len Sok AZ Agi 01 05 06 13 14 16 23 30 31 42 44 56 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13C 13Cc 13G 13Gf 13Gg 13Gw 13Gü 13F 16A 30D 30Dx 31K 31Ka 31M 44F 44Fb 44I 44Ic 56F 56Fb 65A 65Ag 65Ai 65Am 65Am2 65Am4 65At 65At5 65G 65Go 65F 65Fp 65Fz 76D 76Dd

It occurs at various habitats of the mountain steppe, and *Quercus* woodland. Diurnal to nocturnal in the summer.

#### **413. *Pyrausta castalis* Treitschke,1829 Figs. 86-88**

Synonym(s): *castalis* Treitschke,1829 Original Reference: *Pyrausta castalis* Treitschke,1829, Schmett. Eur. 7: 165. Type(s): [Kroatien]: Dalmatien. Range (in code): PT ES FR IT CZ HU RO HV YU AL BG GR RU MD UA BY TR IR Elb Th Fa AZ Cc Nv Ord AM Eri 05 06 13 16 25 30 37 42 44 65 70 71 73 76 05A 06R 13F 16A 25F 25Fa 44L 44Lc 65A 65Am 65Am4 65At 65At5 65D 65Dg 65F 65Fr 65N 65Np2 65Nm 70C 70Ce 73A 73Ac 73Aç 76C Prep. No: GP2525♂

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### **414. *Pyrausta despicata* (Scopoli,1763) Figs. 22, 89, 108**

Synonym(s): *despicata* Scopoli,1763; *koenigiana* O.F.Müller,1764; *vestianella* Clerk,1764; *cespitalis* [Denis & Schiffermüller],1775; *sordialis* Thunberg,1784; *intermedialis* Duponchel,1833; *tendinosalis* Bremer,1874; *yangtsealis* Caradja,1938; *ifranalis* Leraut,2001 Original Reference: *Phalaena despicata* Scopoli,1763, Entomologia Carniolica: 231. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): MA Ifr PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO SS YU AL BG GR Cr TR IQ Rzw Amr DK NO SE FI EE LV LT RU Cc GG CY IR Ab Elb Shh Th Fa Shr Com Ha Plr Kdv Mz AF Hr Bmu Slg Pnj BdA Pic Kab Arh Srb Ca Gbh Adr Fz Khi Pag Pli UZ Fe CN Ui Ju Ku LB Bsa PK Abb Sro Mz Sb Yu Uk JO KG DZ Lbs 01 05 06 11 13 14 16 17 21 24 25 31 32 33 34 42 46 51 55 56 58 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13B 13Bg 13G 13Gf 13F 13F6 13Gö 13Gü 13Gw 16A 21L 21Lf 31M 55F 56D 56Dd 56F 56F1 58G 58Gg 65A 65Ac 65Ac3 65Ai 65As 65Am 65Am1 65Am4 65At 65At5 65D 65Df 65Dg 65Dga 65Dh 65Du 65Dw 65G 65Gn 65F 65Fb 65Fc 65Fp 65Fz 65K 65Kb 65Ké 65Kl 65Ku 65Kg 65L 65Lb 65N 65Nk 65Np 65Np7 65Np8 65Nr2 65Nm 76C Prep. No: GP2526♂

It occurs at various habitats of the mountain steppe. Diurnal to nocturnal, bivoltine, common in the summer.

#### **415. *Pyrausta limbopunctalis* (Herrich-Schäffer,[1849])**

Synonym(s): *limbopunctalis* Herrich-Schäffer,[1849] Original Reference: *Botys limbopunctalis* Herrich-Schäffer,[1849], Syst. Bearb. Schmett. Eur. 4: 115, pl.17 fig.117. Type: Spain. Range (in code): PT ES An Grn Sa RU TR Cc Kus Da AM IQ Ry IR Elb Th Mz Ha Dam Kdv 05 06 16 25 30 33 38 42 46 51 58 65 76 05A 06R 16A 25N 25Na 30B 30Bb 30Bk 51B 51Bc 65A 65Ac 65Ac3 65Ab 65Aba 65Bx 65D 65Df 65Dg 65Dga 65G 65Ge 65Gv 65Gz 65F 65Fw 65Fz 65K 65Kd 65Kg 76C Prep. no: GP781♂, GP782♀

It occurs at the Upper Hights of the mountain steppe. Diurnal to nocturnal in the summer.

#### **416. *Pyrausta neglectalis* Caradja,1916 Figs. 90-92**

Synonym(s): *neglectalis* Caradja,1916; *rungsi* D.Lucas,1942 Original Reference: *Pyrausta neglectalis* Caradja,1916, Dt. ent. Z., Iris 40-41. Syntypes: [Spain]: "Cuenca"; [Turkey]: "Kasikoparan", "Konia", "Amasia"; [Armenia]: "Erivan". Range (in code): MA PT ES Cue An TR Cc AM Eri 05 42 65 76 05A 65A 65Ai 76C Prep. No: 2522♂

It occurs at various habitats of the mountain steppe. Diurnal to nocturnal, common in the summer. New to the fauna of Van Province.

**Remark:** The validity of this species was proposed by Slamka (2013). Due to the external similarity, in the past *Pyrausta virginalis* and *neglectalis* were confused in Turkey. Therefore, the *virginalis*-like individuals will be re-examined by the authors firstly in East Turkey.

**417. *Pyrausta obfuscata* (Scopoli, 1763) Figs. 1, 23, 93-95, Map 50**

**Synonym(s):** *obfuscata* Scopoli, 1763; *fuscorubella* Goeze, 1783; *bimaculosa* Fourcroy, 1785; *rubralis* Villers, 1789; *pygmealis* Duponchel, 1833; *fucatalis* Treitschke, 1835; *atrosanguinalis* Eversmann, 1842 Original Reference: *Phalaena obfuscata* Scopoli, 1763, Entomologia Carniolica: 232. Type(s): [Slovenien]: Carniola [Krain]. Range (in code): ES FR Si IT BE DE CH AT CZ SK HU RO YU AL BG GR TR RU MD UA BY IR GlS KK TJ Al o5 13 16 65 05A 13G 13Ga 13Gb 16A 65A 65Au 65Am 65Am2 65D 65Do 65F 65Fd Prep. No: GP2527♂.

It occurs at various habitats of the mountain steppe. Diurnal, rare in the summer.

**418. *Pyrausta pavidalis* Zerny, 1935 Fig. 24, Map 51**

**Synonym(s):** *pavidalis* Zerny, 1935; *krimensis* Budashkin & Martin, 1993 Original Reference: *Pyrausta pavidalis* Zerny, 1935, [in] Ostheder, L. & E. Pfeiffer, Mitt. münchen. ent. Ges. 24 (3): 101-102. Syntypes 4♂ 2♀: [Türkei]: Marasch. Range (in code): TR Cm o1 46 65 46G 65A 65Ai 65Am 65Am4 65D 65Df 65F 65Fp 65Fz 65N 65Np 65Np1 65Np7 65Np8 65Nm

It occurs at various habitats of the mountain steppe. Nocturnal, rare in the summer.

**419. *Pyrausta purpuralis* (Linnaeus, 1758) Figs. 96-98**

**Synonym(s):** *purpuralis* Linnaeus, 1758; *inflammata* Scopoli, 1763; *purpuraria* Latreille, [1803]; *confundalis* Zetterstedt, 1839; *chermesinalis* Guenée, 1854; *melanalis* Caradja, 1916 Original Reference: *Phalaena purpuralis* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 536. Lectotype ♀: Europa (Robinson & Nielsen, 1983: 226). Range (in code): DZ Lbs PT ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG Bjo Pti Kir Lag Len AZ DK NO SE FI EE LV LT RU MD UA BY IR Ha IL Pa Hf o1 o5 o7 13 16 17 31 33 39 61 65 80 o5A 13F 16A 31M 65A 65As 65K 65Kl Prep. no: GP2528♂

It occurs at mesophil meadows in the mountains. Diurnal, flight period is the summer.

**420. *Pyrausta sanguinalis* (Linnaeus, 1767) Figs. 99-101, Map 52**

**Synonym(s):** *sanguinalis* Linnaeus, 1767; *crentalis* Scriba, 1770; *haematalis* Hübner, [1819] Original Reference: *Phalaena sanguinalis* Linnaeus, 1767, Syst. Nat. (Edn.12) 1(2): 882, no.339. Lectotype, 1 ex: [Lusitania] (Robinson & Nielsen, 1983: 229). Range (in code): PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU MK AL BG GR Cr TR DK NO SE FI EE LV RU MD UA BY Cc GG AZ Tbl Bjo Kir Lag AM Eri IL Pa Hf LB CY IR Gh Tgo Ana Ke Fa Shr Com Elb Kh Th Mz Plr Gor AF Pag Kot Bkt Asm Arh Hr Slg Bsg Gbh Srb Pl Nv Ord Len Mz GlS DZ Bsk Clo TN Gf CN Ui Ku Js o1 o5 o6 o7 13 16 17 30 31 33 34 39 44 54 56 65 69 70 71 73 80 o5A o6R o6Rb 13A 13Ab 13Ax 13F 13F01 13F41 16A 31K 31Ka 31M 33A 33Ac 44L 44Lc 56F 56Fo 65A 65Am 65Am1 65D 65Ds 65Fz 70C 70Ce 73E 73Eb Prep. no: GP522♂, GP2520♂.

It occurs at various habitats of the mountain steppe. Diurnal to nocturnal, very rare in the summer.

**421. *Pyrausta* sp.**

Its identity and taxonomic evaluation will be published separately.

Range (in code): TR 65 65A 65Am 65Am4 Prep. no: GP2496♂

**422. *Scoparia subfusca* Haworth, [1811] Fig. 102**

**Synonym(s):** *subfusca* Haworth, [1811]; *graecella* Stainton, 1849; *subfuscalis* Guenée, 1854; *scotica* White, 1872; *cembrae* auct. nec Haworth, 1811; *cembralis* auct. nec Gn., 1854; *zelleri* Wocke, 1855; *pfeifferi* Marion, 1960; #*sugfusca* Leraut, 1984 Original Reference: *Scoparia subfusca* Haworth, [1811], Lepid. Br.: 498. Syntypes: England. Range (in code): MA ES FR Co Si IT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU B-H MK AL BG GR TR IR Ab Sro Oru Elb Mz Plr Gor DK NO SE FI EE LV RU MD UA BY 42 46 65 42B 46G 65A 65Ai Prep No: GP2482♂

It occurs at various habitats of *Quercus* woodland. Nocturnal in the summer. New to the fauna of Van Province.

**423. *Sefidia clasperella* Asselbergs, 1994 Figs. 103-105, Map 53**

Synonym(s): *clasperella* Asselbergs, 1994 Original Reference: *Sefidia clasperella* Asselbergs, 1994, Nota lepid. 16 (3/4): 172-178, figs. Holotype ♂: Turkey: Konya Prov.: Akşehir, Sultandağları, 1100m (ITZ, Amsterdam). Range (in code): TR 13 33 42 65 13F 13F01 13F11 13F35 13F41 33B 42B 65A 65Ai Prep No: GP2501♂

It occurs at various habitats of the mountain steppe. Nocturnal, rare in the summer. New to the fauna of Van Province.

**424. *Sitochroa straminealis* (Hampson, 1900) Figs. 25, 106-107, Map 54**

Synonym(s): *straminealis* Hampson, 1900 Original Reference: *Phlyctaenodes straminealis* Hampson, 1900, Trans. ent. Soc. Lond. 1900 (2): 388, pl. iii fig. 22. Type ♂: [Turkey]: "Asia Minor" (coll. Staudinger). Range (in code): TR LB Bsa IR Fa Com 13 42 65 73 13A 13Ab 13Ax 13F 13F6 65A 65Ai 65Am 65Am4 73A 73Ad 73Ad2 GP2523♂

Locally found in the summer, diurnal to nocturnal, univoltine. The moth feeds on the nectar of *Mentha* flowers (Fig. 25). New to the fauna of Van Province.

**425. *Sitochroa verticalis* (Linnaeus, 1758) Map 55**

Synonym(s): *verticalis* Linnaeus, 1758; *inversa* Fourcroy, 1785; *cinctalis* Treitschke, 1829; *nigriciliialis* Ragonot, 1895 Original Reference: *Phalaena verticalis* Linnaeus, 1758, Syst. Nat. (Edn.10): 533. Lectotype ♀: [Europa] (Robinson & Nielsen, 1983: 236). Range (in code): PT ES FR Co Si IT GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR TR Cc GG IR Ab Ak Shf Elb Glz Th Kdj Ha Kh DK NO SE FI EE LV LT RU Sb MD UA BY AF Hr Bmu Kot Bark Fz Pli Bd UZ KG Tk Dj Ii JP 01 05 06 08 16 21 25 27 31 32 36 42 46 56 65 71 76 05A 05E 06R 06Rb 08H 08He 16A 21N 21Nh 27E 31M 36D 36Db 56F 56G 65A 65Ab 65Aba 65D 65Da 65Dt 65Dl 65Dlc 65F 65Fp 65Fz 76A 76Ae 76B 76Bj 76Bf 76Bh Prep. no: GP771♂, GP772♀.

Normally, this species is seen also by days, however it has been recorded in the district at the Upper Heights, by night (Krapet Pass 2820m, 7.8.2016, leg. M. Kemal & A. Koçak).

**426. *Synaphe bombycalis* ([Denis & Schiffermüller], 1775) Map 56**

Synonym(s): *bombycalis* [Denis & Schiffermüller], 1775; *almanica* Rebel, 1917. Original Reference: *Pyralis bombycalis* [Denis & Schiffermüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 120. Type(s): [Austria]: Vienna district [Types presumably destroyed by fire in 1848]. Range (in code): MA DZ Anna Sfr Eba TN ES FR Co IT AT CZ SK HU RO YU RU Sr Tv TR Cc Arr IR Elb Th Nss Kh TM Kp UA AF KK 01 04 06 25 27 30 31 38 44 47 50 58 65 71 76 80 30B 30Bb 30Bk 65A 65Au 65B 65Bp 65Bx 65F 65Fp 65Fz 65K 65Ks 65N 65Np2 65Nm 76C 80B 80Bc

It occurs at various habitats of the mountain steppe. Diurnal, rare in the summer.

**427. *Syrianarpia mendicalis* (Staudinger, 1879) Figs. 109-111, Map 57**

Synonym(s): *mendicalis* Staudinger, 1879; #*mencidalis* Amsel, 1949; *osthelderi* Leraut, 1982; *fuscella* Leraut, 1982 Original Reference: *Metasia* ? *mendicalis* Staudinger, 1879, Horae Soc. ent. ross. 15: 183. Type ♂: [Türkei: Amasya]: "Kerasdere". Range (in code): UA Cm TR IQ Rwz Brs IR Snj Kd 05 13 46 65 73 05A 13F 13F01 13F35 13F41 65A 65Ab 65Aba 73C 73Cd Prep. no: GP2465♂

It occurs at various habitats of the mountain steppe. Nocturnal, rare in the summer. New to the fauna of Van Province.

**428. *Tretopteryx pertusalis* (Geyer, [1832]) Figs. 26, 27, Map 58**

Synonym(s): *pertusalis* Geyer, [1832]; *weissenbornii* Freyer Original Reference: *Eurrhypis pertusalis* Geyer, [1832], Zutr. exot. Schmett. 4: 36, figs. 763-764. Syntypes: Griechenland. Range (in code): FR GR Cr TR IQ Ama LB Bsa IL Pa 01 05 06 13 21 25 31 32 33 35 46 49 56 63 65 01L 01La 05A 06K 06Kd 06N 06Nc 06R 06Rd 13F 13G 13Gw 13Gü 21N 21Nb 46F 46Fd 49E 49Ea 56F 56Fc 56Fn 56Fx 65A 65Ai 65Au 65At 65D 65Dh 65Dn 65Dv 65F 65Fb

It occurs at various habitats of the mountain steppe. Diurnal in the summer.

**429. *Udea confinalis* (Lederer, 1858) Map 59**

Synonym(s): *confinalis* Lederer, 1858; *graecalis* Staudinger, 1870 Original Reference: *Botys confinalis* Lederer, 1858, Wien. ent. Monatschr. 2: 149 Taf. 4 fig. 4. Type ♀: Syria: Damask. Range (in code): GR TR Cc SY Dms IQ Ry Hjo IR Elb NSS Com Kz Th Fa Kh 13 46 65 76 13A 13Ab 13Ax 13F 65A 65Ac 65Ac3 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Fz 76C

It occurs at various habitats of the mountain steppe. Nocturnal, common in the summer.

#### 430. *Udea dispunctalis* (Guenée, 1854) Map 60

Synonym(s): *#bipunctalis* Herrich-Schäffer, [1851]; *dispunctalis* Guenée, 1854; *bipunctalis* Herrich-Schäffer, [1855]; *silvalis* de Joannis, 1891 Original Reference: *Scopula dispunctalis* Guenée, 1854, [in] Boisduval & Guenée, Hist. Nat. Ins., Lépid. 8 (Deltoides & Pyralites): 396 (pro *bipunctalis* H.-S.). Type: Espana: Ronda. Range (in code): PT ES Mu Grn FR Si Cr TR Cc GG Bjo RU IR Kh 13 38 42 46 65 76 13F 13F6 42B 65A 65Ab 65Aba 65D 65Df 65Fz 76C

It occurs at various habitats of the mountain steppe. Nocturnal in the summer.

#### 431. *Udea ferrugalis* (Hübner, 1796) Map 61

Synonym(s): *ferruginalis* Rossi, 1794 nec *Fabr.*, 1781; *ferrugalis* Hübner, 1796; *#ferugalis* Hübner, 1796; *martialis* Guenée, 1854; *hypatialis* Walker, 1859; *testacea* Butler, 1879 Original Reference: *Pyralis ferrugalis* Hübner, 1796, Samml. eur. Schmett. 6, Pyralides: Tab. 9 fig. 54. Type(s): Europa. Range (in code): DZ MA PT ES FR Co Sa Si IT MT IE GB BE NL LU DE CH AT PL CZ SK HU RO YU AL BG GR Cr CY TR DK NO SE FI EE LV RU MD UA BY IL Pa Hf LB Bsa IR Ahz Elb Mz KdV Dam Plr Gor Kdj Km Th Fa Shr Sse Kh Gh Tgo IQ Dia Bgd Rzw AF Ca Arh Khi Adr Fz Bsg Hr Blh In LK MM ET JP TW TH CMa Dst Ds09 Cc GG Tbl Lag Len AZ Sok Cn AE Ajj Clo 01 03 05 06 07 13 14 16 17 26 31 32 33 34 35 38 42 44 46 48 49 56 58 63 65 71 75 76 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13G 13Gö 13Gg 16A 31K 31Ka 31M 44E 44L 44Lc 48L 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am2 65Am4 65D 65Df 65Du 65Fv 65F 65Fd 65Fp 65Fz 65K 65Kl 65Ku 65N 65Nc 65Nc4 65Np1 65Nm 75F 75Fb 76D 76Dd 80B 80Bc Prep. no: GP761♀

It occurs at various habitats of the mountain steppe. Diurnal to nocturnal, very rare in the summer.

#### 432. *Udea praepetalis* (Lederer, 1869) Map 62

Synonym(s): *praepetalis* Lederer, 1869; *haemopsamma* Meyrick, 1937 Original Reference: *Botys praepetalis* Lederer, 1869, Horae Soc. ent. ross. 6: 90, pl. 5 fig. 11. Type: Iran: Astrabad [Gorgan], leg. Haberhauer. Range (in code): IR Ha Adv Fa Th Kdj Elb KdV Mz Plr Gor Sse TR Cc AZ Nv Ord IQ Ry Slf TM KK CN Ui Kml 04 05 13 25 30 42 46 51 56 58 65 69 71 76 05A 13A 13Ab 13Ax 13B 13Bd 13F 25A 30B 30Bc1 30Bx 56F 56F1 56Fn 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65Dl 65Dlc 65Dx 65F 65Fr 65Fp 65Fz 65H 65K 65Kd 65Kg 65Kl 65N 65Np2 65Nr2 65Nm 69B 76C Prep. no: GP704↑

It occurs at various habitats of the mountain steppe. Diurnal to nocturnal in the summer.

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## Acknowledgement

We thank to Dr. Kesran Akın (Eren Univ., Bitlis) for supplying some important publications.

## Images from Nature

The following photographs reflect the behaviours of various pyralid moths, during their resting or feeding in nature. All of them were taken by the first author during excursions to Bahçesaray in 2016.



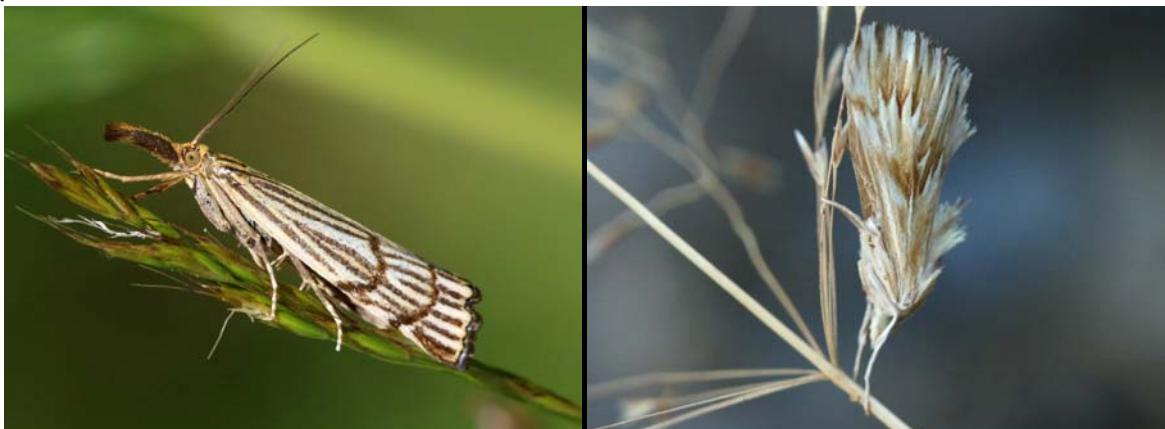
Figs. 2, 3 - *Acrobasis tumidana* (left). Paşaköy 1600m 7 6 2016. *Agriphila tolli* (right). Mukus valley 1840m 1 10 2016.



Figs. 4, 5 - *Asalebria (Exophora) exasperata* (left). Altindere 5 7 2016. *Bradyrrhoa (Kasikoparania) mesobaphella*, ♂ (right). Liman, Populetum 2320m 7 8 2016



**Figs. 6, 7** – *Catoptria pinella* (left). Liman, Populetum 2320m 7.8.2016. *Catoptria hilarella* (right). Krapet 2820m 7.8.2016.



**Figs. 8, 9** – *Chrysocrambus craterellus* (left). Bahçesaray meadows 1600m 12.6.2016. *Cynaeda gigantea* (right). Paşaköy 1600m 5.8.2016.



**Figs. 10, 11** – *Ephelis cruentalis* (left). Krapet 2820m 7.8.2016. *Epischnia christophori* (right). Paşaköy 1600m 6.7.2016.



**Figs. 12, 13** – *Mecyna trinalis* (left). Paşaköy 1600m 5.8.2016. *Metasia ophialis* (right). Mukus valley (65Am4) 1840m, 3.10.2016.



Figs. 14, 15 – *Myelois pumicosa*. Mukus valley 1840m on 13 6 2016 (left), on 4 6 2016 (right).



Figs. 16, 17 – *Myrlaea albistrigata* (left). Paşaköy 1600m 6 7 2016. *Oncocera amoenella* (right). Paşaköy 1600m 6 7 2016.



Figs. 18, 19 – *Pediasia matricella* (left). Mukus valley 1840m 3 10 2016. *Phlyctaenomorpha sinuosalis* (right). Mukus valley 1840m 24 6 2016.



Figs. 20, 21 – *Pyrasia guttulalis* (left). Mukus valley 1840m 11 6 2016. *Pyrausta aurata* (right). Mukus valley 1840m 11 5 2016.



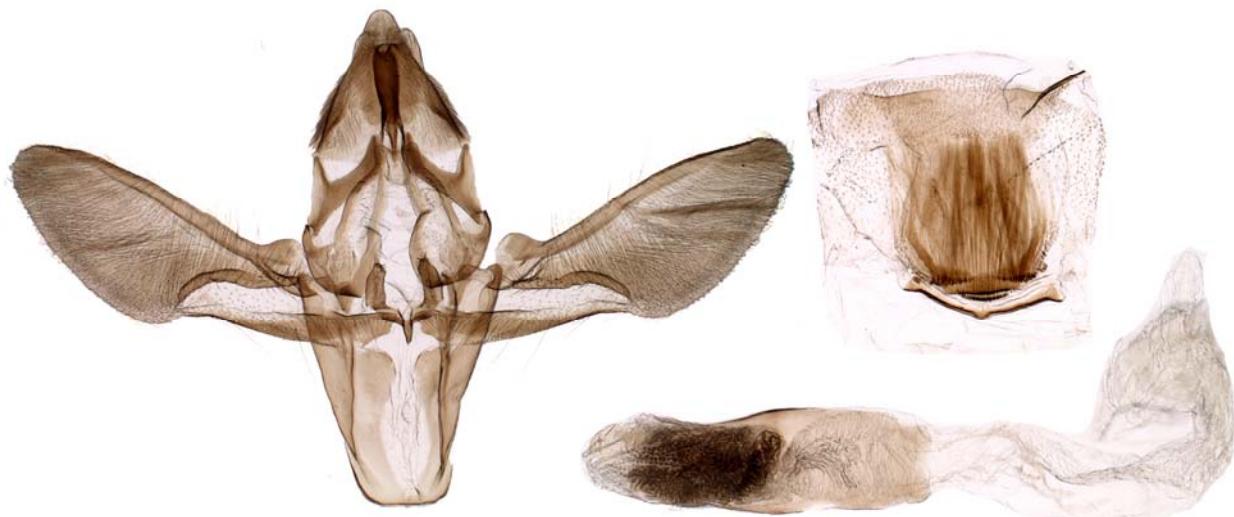
**Figs. 22, 23** – *Pyrausta despicata* (left). Paşaköy 1600m 5 7 2016. *Pyrausta obfuscata* (right), together with *Turanana endymion* on muddy place. Mukus valley 1840m (65Am3) 4 7 2016.



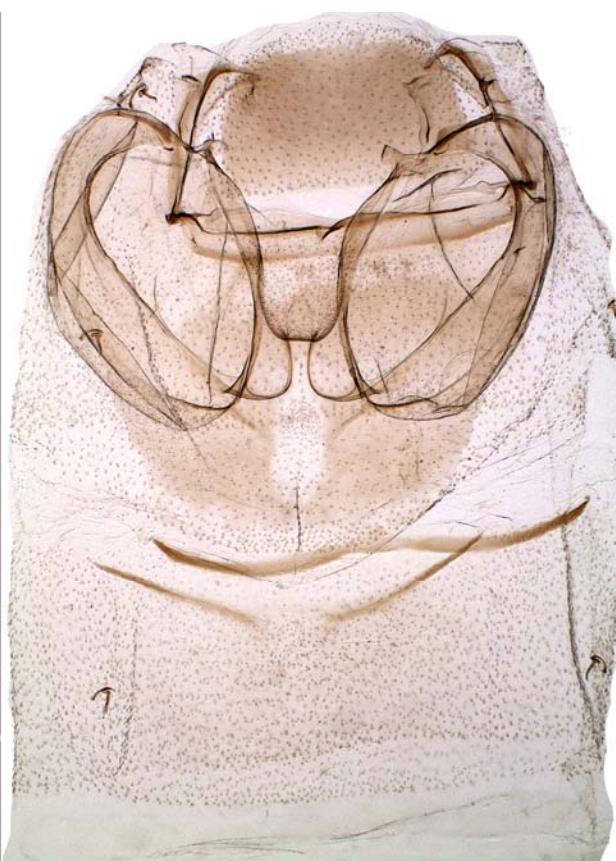
**Figs. 24, 25** – *Pyrausta pavidalis* (left). Mukus valley 1840m (65Am4) 3 10 2016. *Sitochroa straminealis* (right). Paşaköy 1600m (65Ai), 5 8 2016, during feeding on *Mentha* flower.



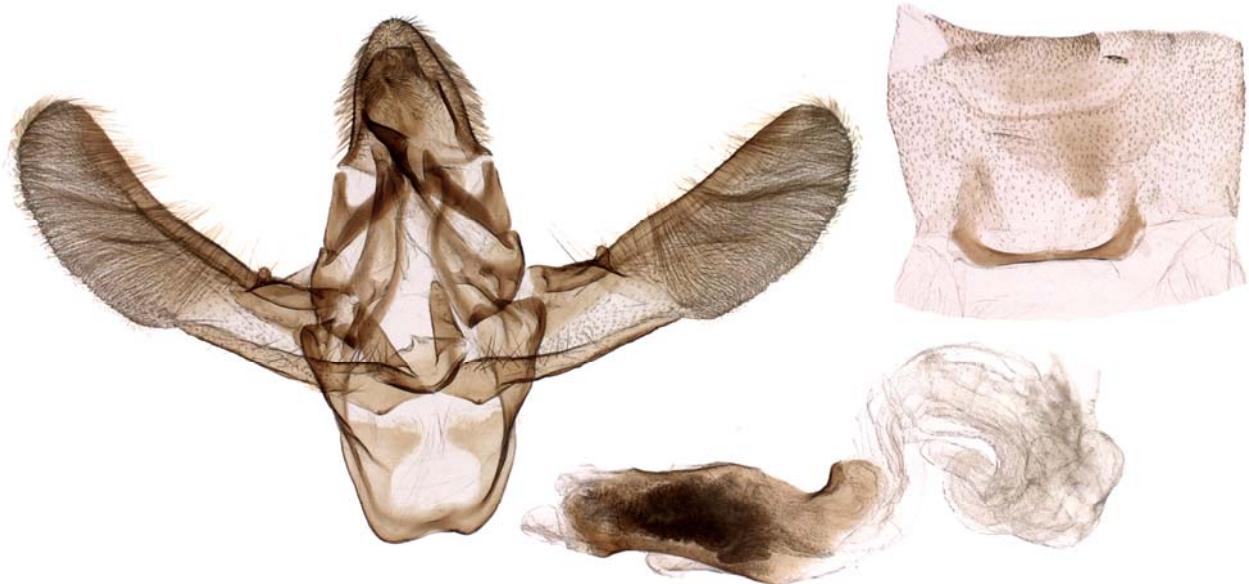
**Figs. 26, 27** – *Tretopteryx pertusalis*. Male (left), Paşaköy 1600m (65Ai), 12 6 2016. Female (right) Mukus valley 1840m (65Am4) 24 6 2016.

**Images of the genitalia and tympanal organs**

**Fig. 28** - *Acrobasis consociella*. Male genitalia and coremata, GP2511. Bahçesaray, Paşaköy 1600m (65Ai).



**Figs. 29, 30** - *Acrobasis consociella*. Ventral view of the male tympanal organ, GP2511. Before preparation (left), after preparation (right). Bahçesaray, Paşaköy 1600m (65Ai).



**Fig. 31** - *Acrobasis dulcella*. Male genitalia and coremata. GP2521. Bahçesaray, Upper Mukus Valley 1785m (65Am1).



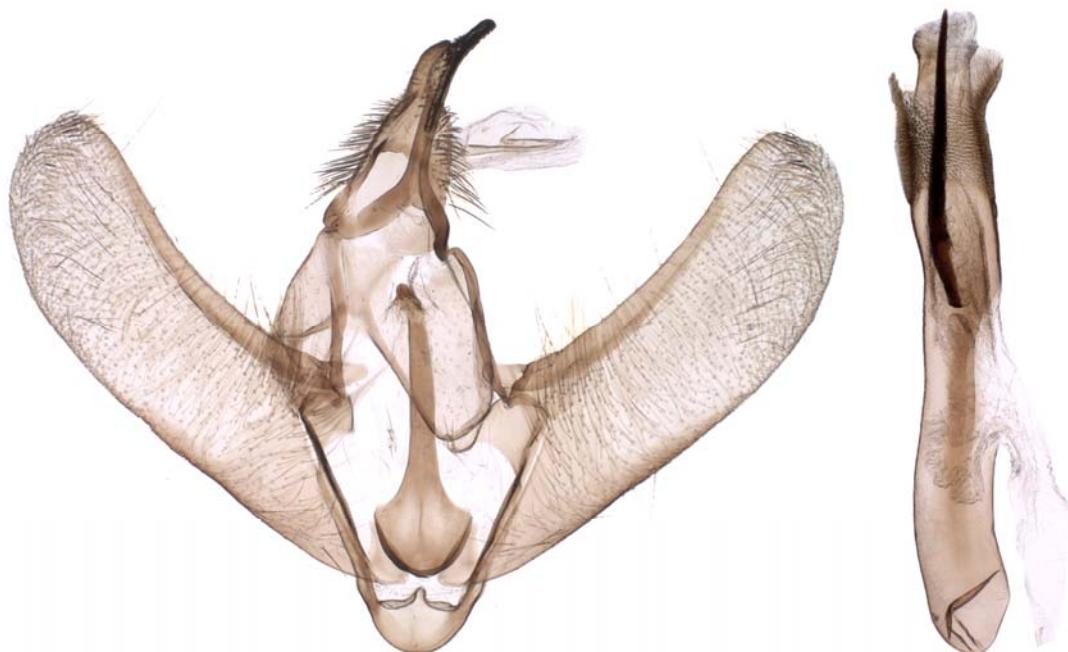
**Figs. 32, 33** - *Acrobasis dulcella*. Ventral view of the male tympanal organ. GP2521. Before preparation (left), after preparation (right). Bahçesaray, Upper Mukus Valley 1785m (65Am1).



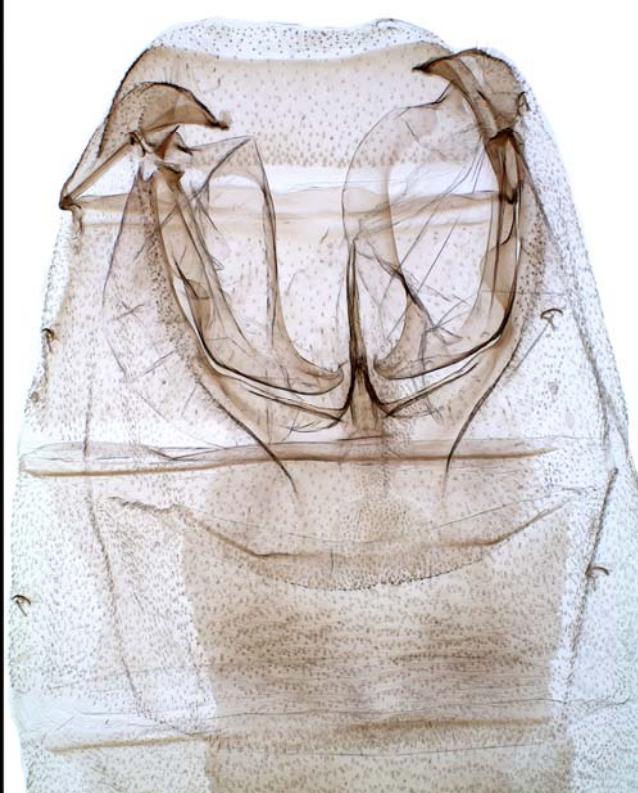
**Fig. 34** – *Agriphila tolli*. Male genitalia. GP2450. Bahçesaray, Upper Mukus valley (65Am1) 1785m.



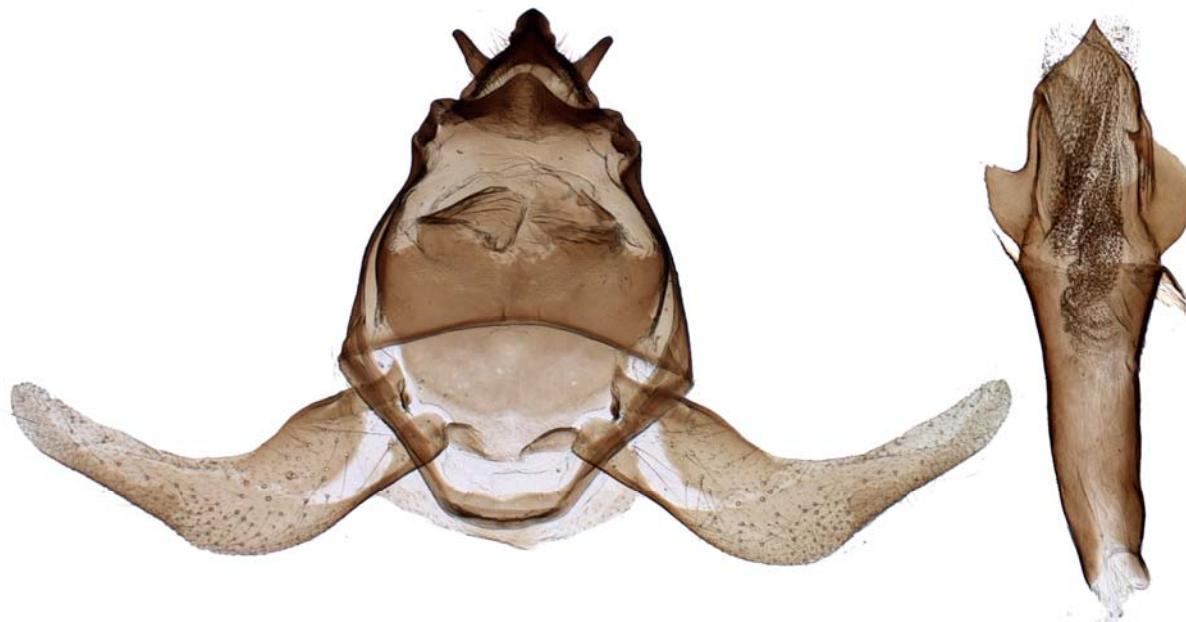
**Figs. 35, 36** – *Agriphila tolli*. Ventral view of the male tympanal organ. GP2521. Before preparation (left), after preparation (right). Bahçesaray, Upper Mukus valley (65Am1) 1785m.



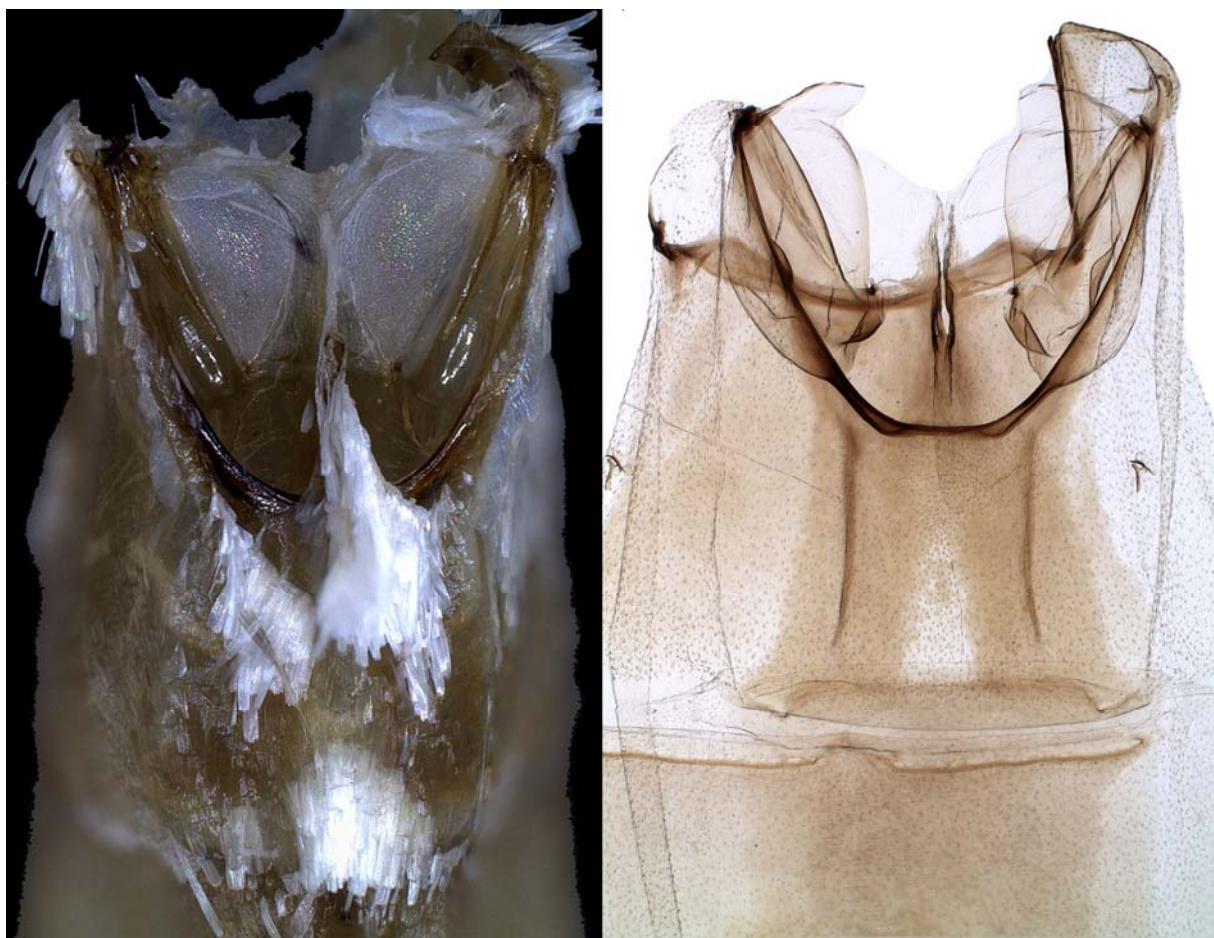
**Fig. 37** – *Anarpia incertalis*. Male genitalia, GP2426. Bahçesaray, Upper Liman, Populetum 2320m (65Ac3), 6.8.2016.



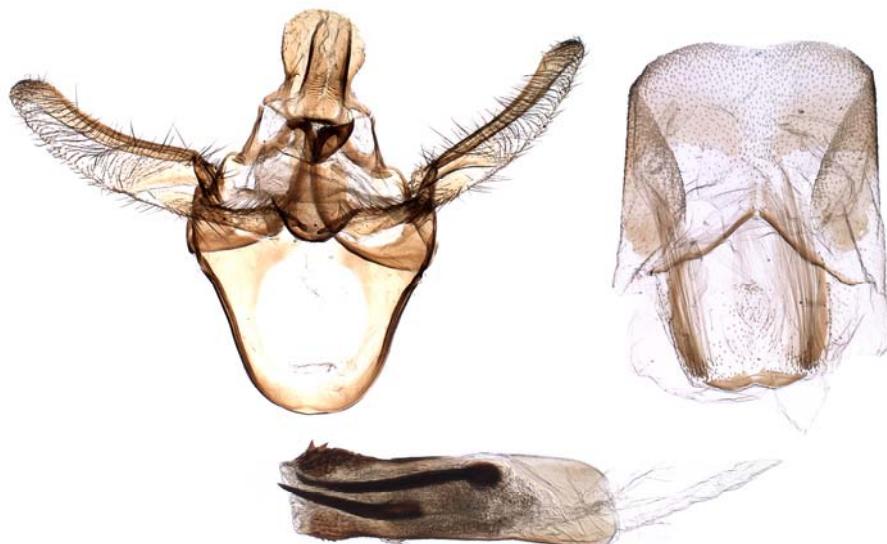
**Figs. 38, 39** – *Anarpia incertalis*. Ventral view of the male tympanal organ. Before preparation (left), after preparation (right). GP2426. Bahçesaray, Upper Liman, Populetum 2320m (65Ac3), 6.8.2016.



**Fig. 40** – *Ancylolomia pectinatella*. Male genitalia. GP2480. Bahçesaray, Upper Mukus Valley 1840m (65Am4), 3.10.2016.



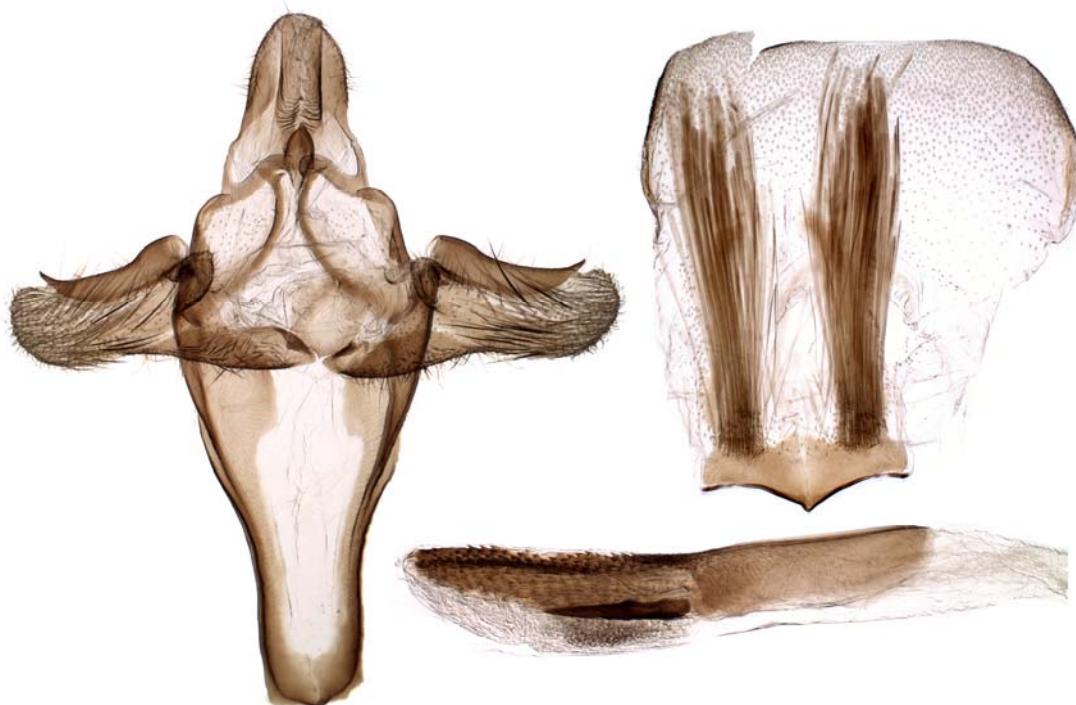
**Figs. 41, 42** – *Ancylolomia pectinatella*. Ventral view of the male tympanal organ. GP2480. Before preparation (left), after preparation (right). Bahçesaray, Upper Mukus Valley 1840m (65Am4), 3.10.2016.



**Fig. 43** - *Arsissa divaricella*. Male genitalia and coremata. GP2376. Bahçesaray, Upper Mukus valley (65Am4) 1840m, 5.8.2016.



**Figs. 44, 45** – *Bradyrrhoa (Kasikoparania) mesobaphella*. Male (left), female (right). There is no significant difference between the sexes externally.



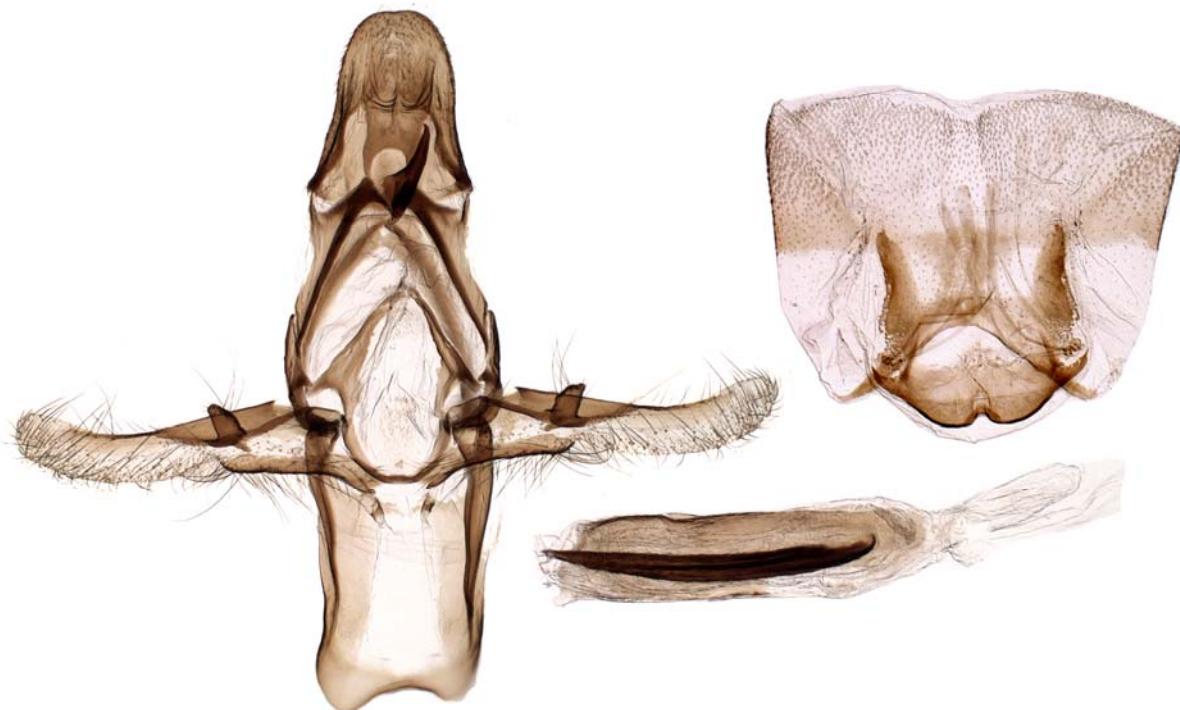
**Fig. 46** – *Bradyrrhoa (Kasikoparania) mesobaphella*. Male genitalia and coremata, GP2499. Bahçesaray, Upper Liman, Populetum 2320m, 7.8.2016.



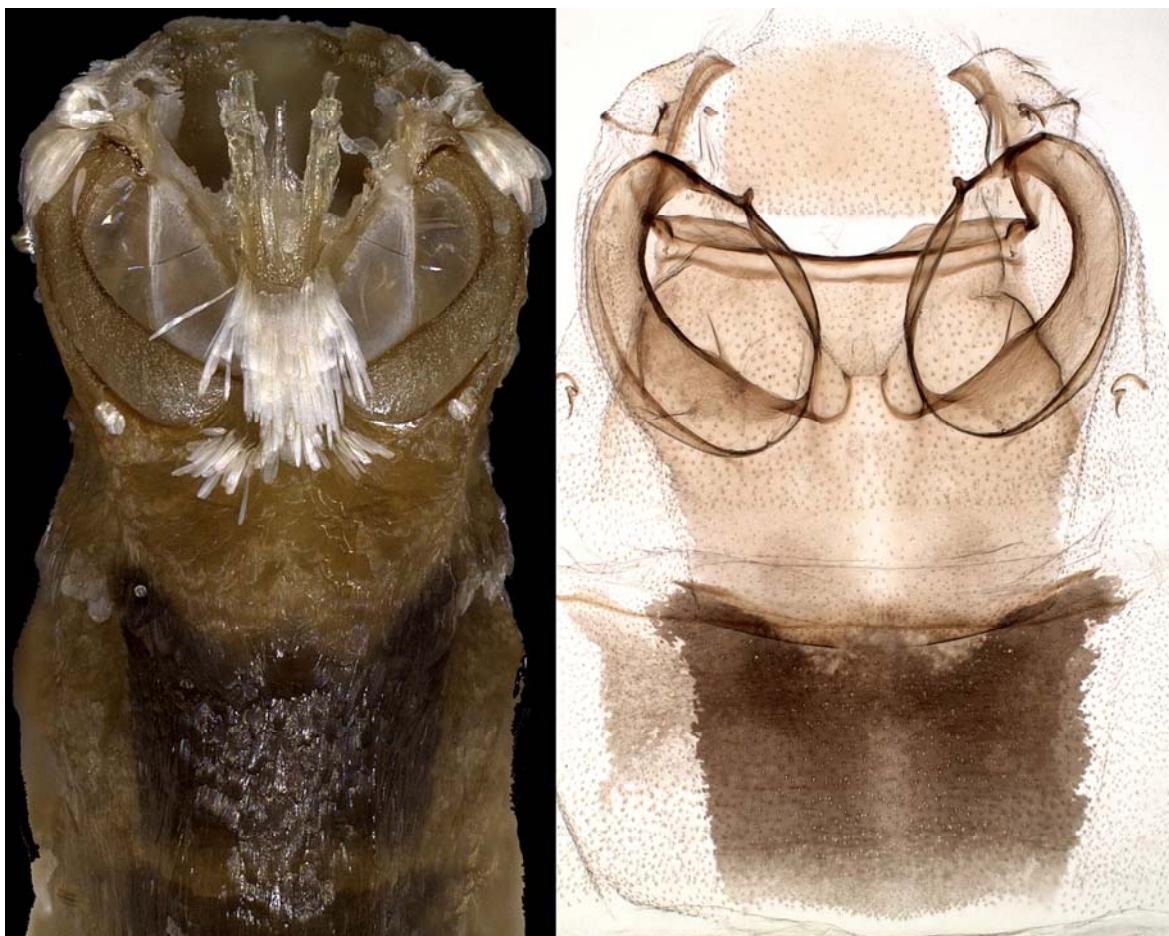
Figs. 47, 48 – *Bradyrrhoa (Kasikoparania) mesobaphella*. Ventral view of the male tympanal organ. Before preparation (left), after preparation (right), GP2499. Bahçesaray, Upper Liman, Populetum 2320m, 7.8.2016.



Fig. 49 - *Bradyrrhoa (Kasikoparania) mesobaphella*. Female genitalia, base of 8. segment enlarged. GP2500. Bahçesaray, Krapet Pass 2820m, 7.8.2016.



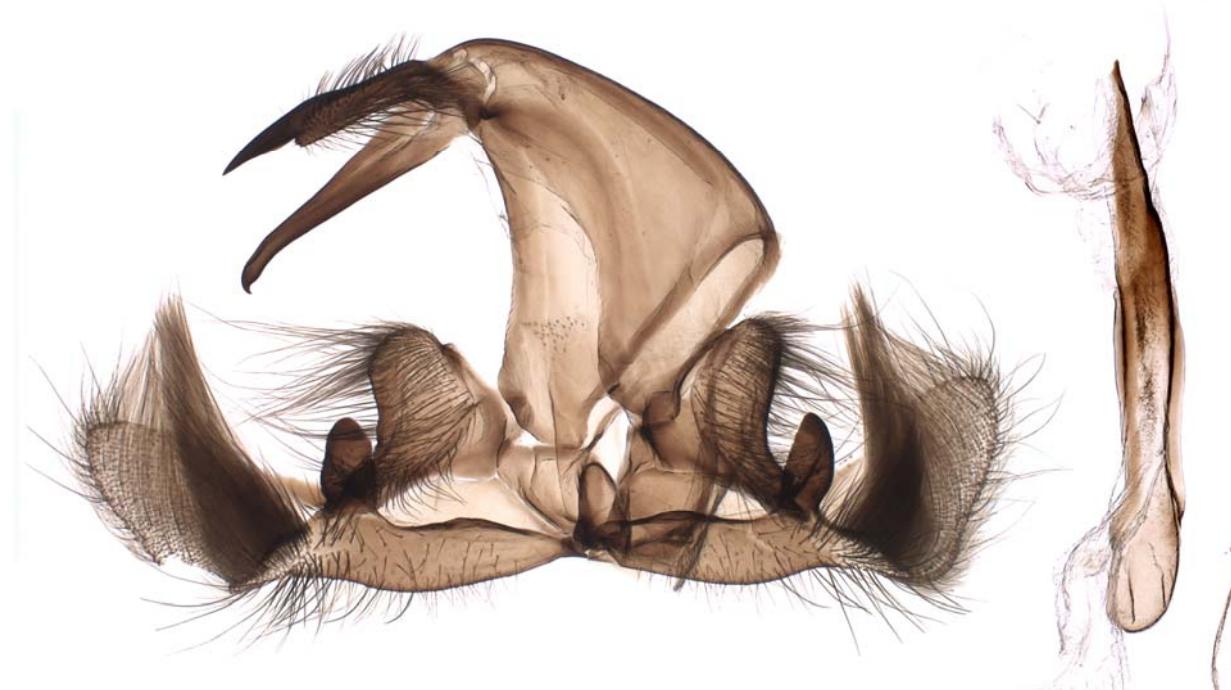
**Fig. 50** – *Bradyrrhoa (s.str.) gilveolella*. Male genitalia and coremata, GP2498. Bahçesaray, Upper Liman, Populetum 2320m 6.8.2016.



**Figs. 51, 52** – *Bradyrrhoa (s.str.) gilveolella*. Ventral view of the male tympanal organ. GP2498. Before preparation (left), after preparation (right). Bahçesaray, Upper Liman, Populetum 2320m 6.8.2016.



**Fig. 53 -** *Catoptria hilarella*. Male genitalia, GP2367. Bahçesaray Krapet (65Aba) 2820m, 6.8.2016.



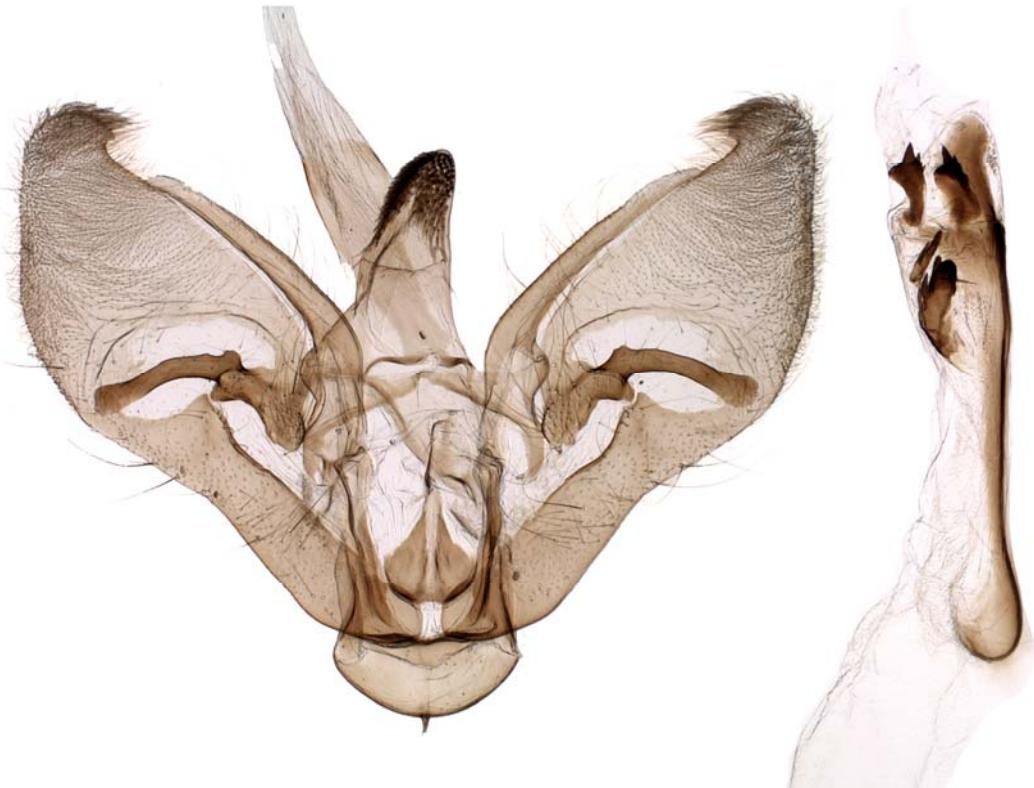
**Fig. 54 -** *Catoptria pinella*. Male genitalia, GP2368. Bahçesaray Liman, Populetum (65Ac3) 2320m, 6.8.2016.



**Fig. 55** - *Hypochalcia ahenella*. Male genitalia and coremata, GP2474. Bahçesaray Paşaköy (65Ai) 1600m, 25.6.2016.



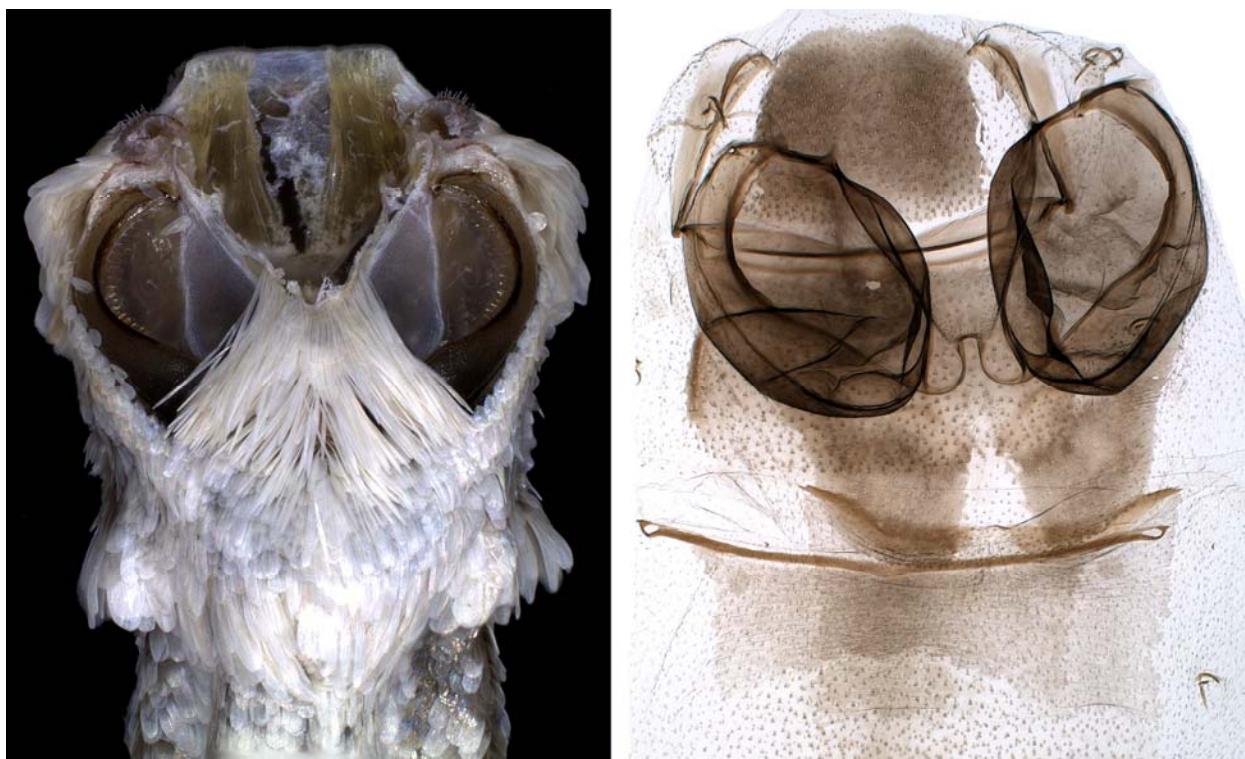
**Figs. 56, 57** - *Hypochalcia ahenella*. Ventral view of the male tympanal organ, GP2474. Before preparation (left), after preparation (right). Bahçesaray Paşaköy (65Ai) 1600m, 25.6.2016.



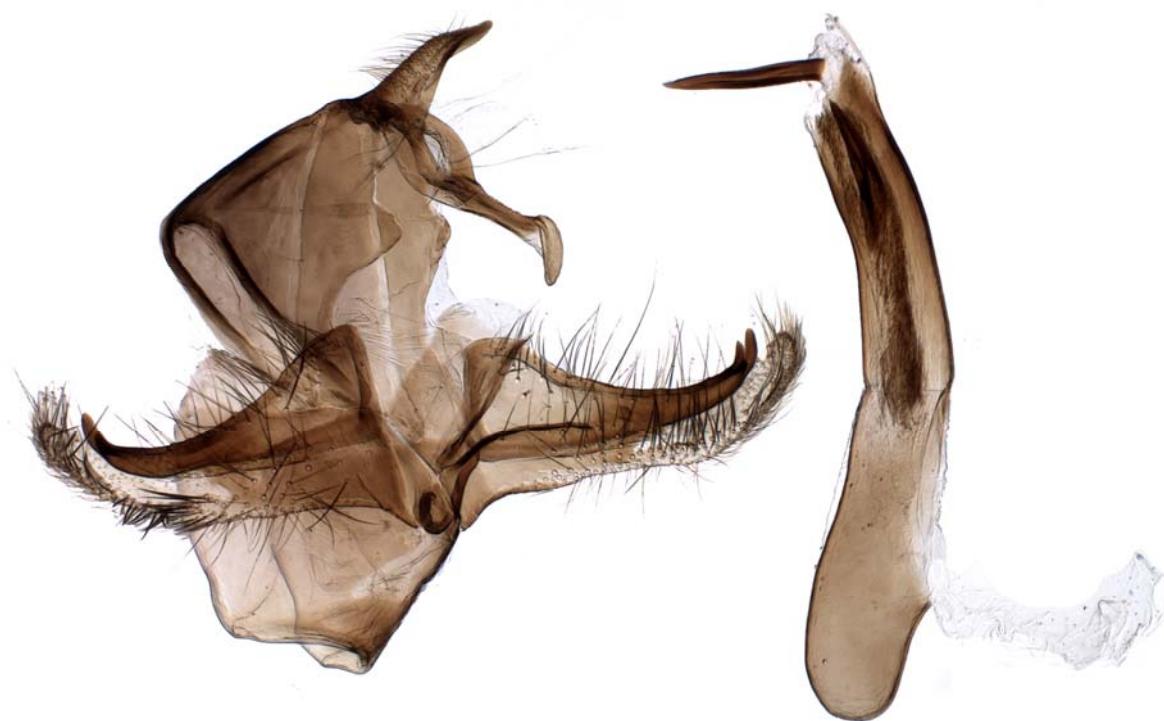
**Fig. 58** - *Mecyna biternalis*. Male genitalia, GP2510. Bahçesaray Mukus valley (65Am4) 1840m.



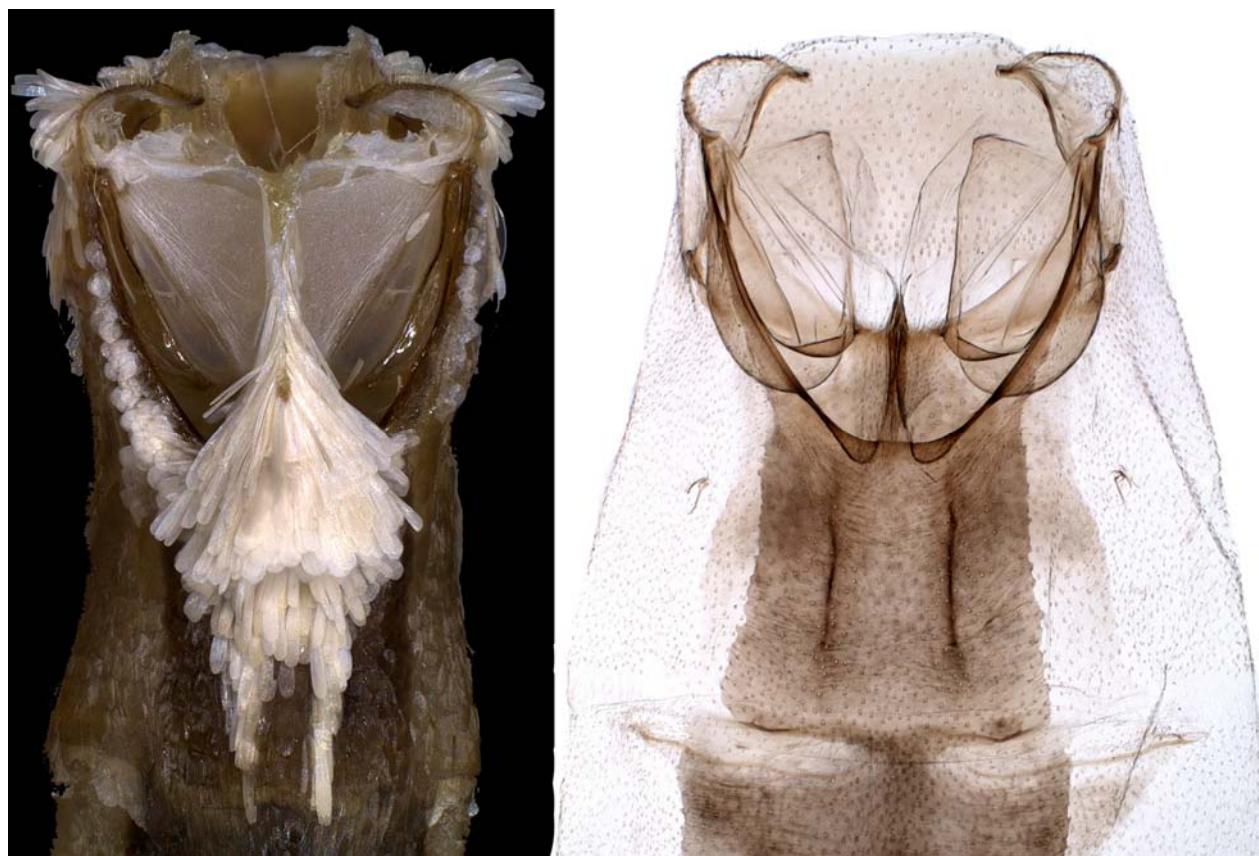
**Fig. 59** - *Merulempista cingillella*. Male genitalia and coremata, GP2478. Bahçesaray Mukus valley (65Am4) 1840m.



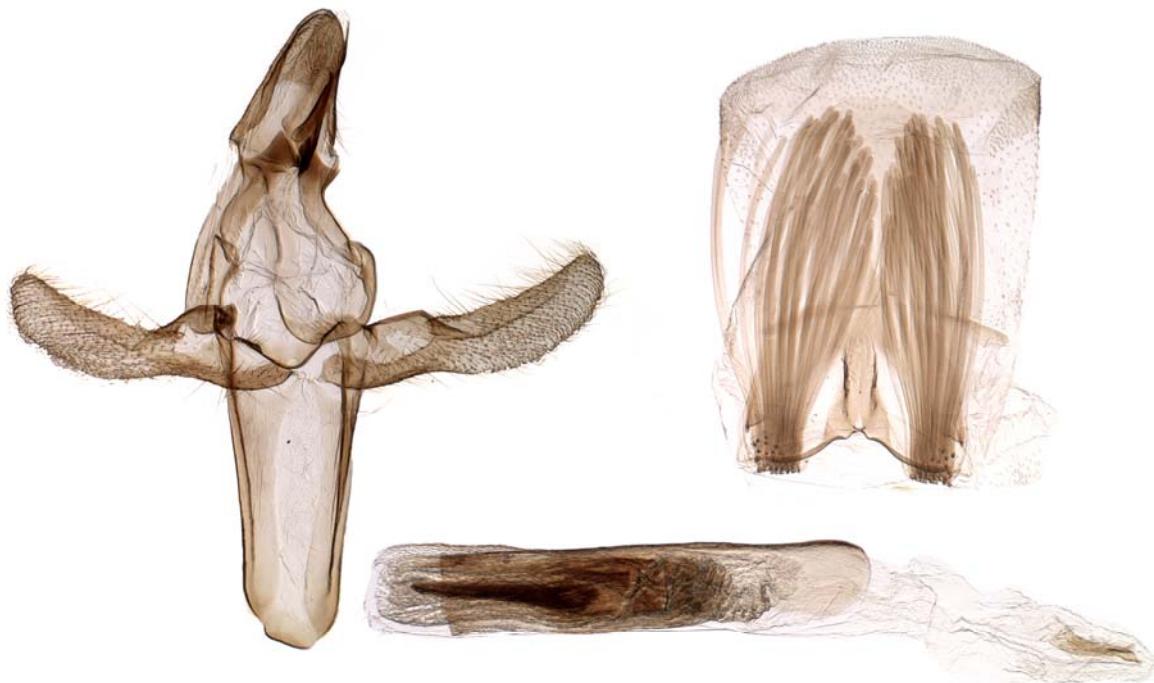
**Figs. 60, 61 -** *Merulempista cingillella*. Ventral view of the male tympanal organ, GP2478. Before preparation (left), after preparation (right). Bahçesaray Mukus valley (65Am4) 1840m.



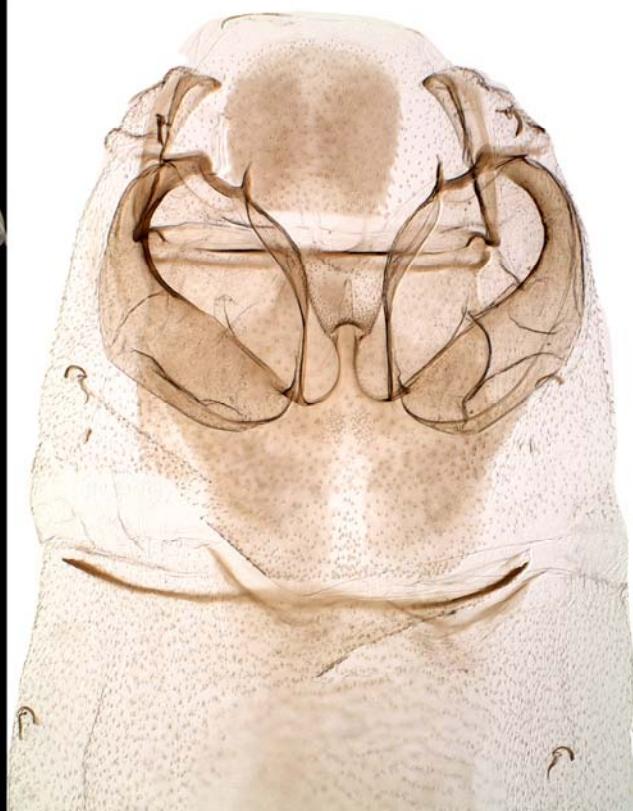
**Fig. 62 -** *Pediasia matricella*. Male genitalia, GP2478. Bahçesaray Mukus valley (65Am4) 1840m.



**Figs. 63, 64** - *Pediasia matricella*. Ventral view of the male tympanal organ, GP2478. Before preparation (left), after preparation (right). Bahçesaray Mukus valley (65Am4) 1840m.



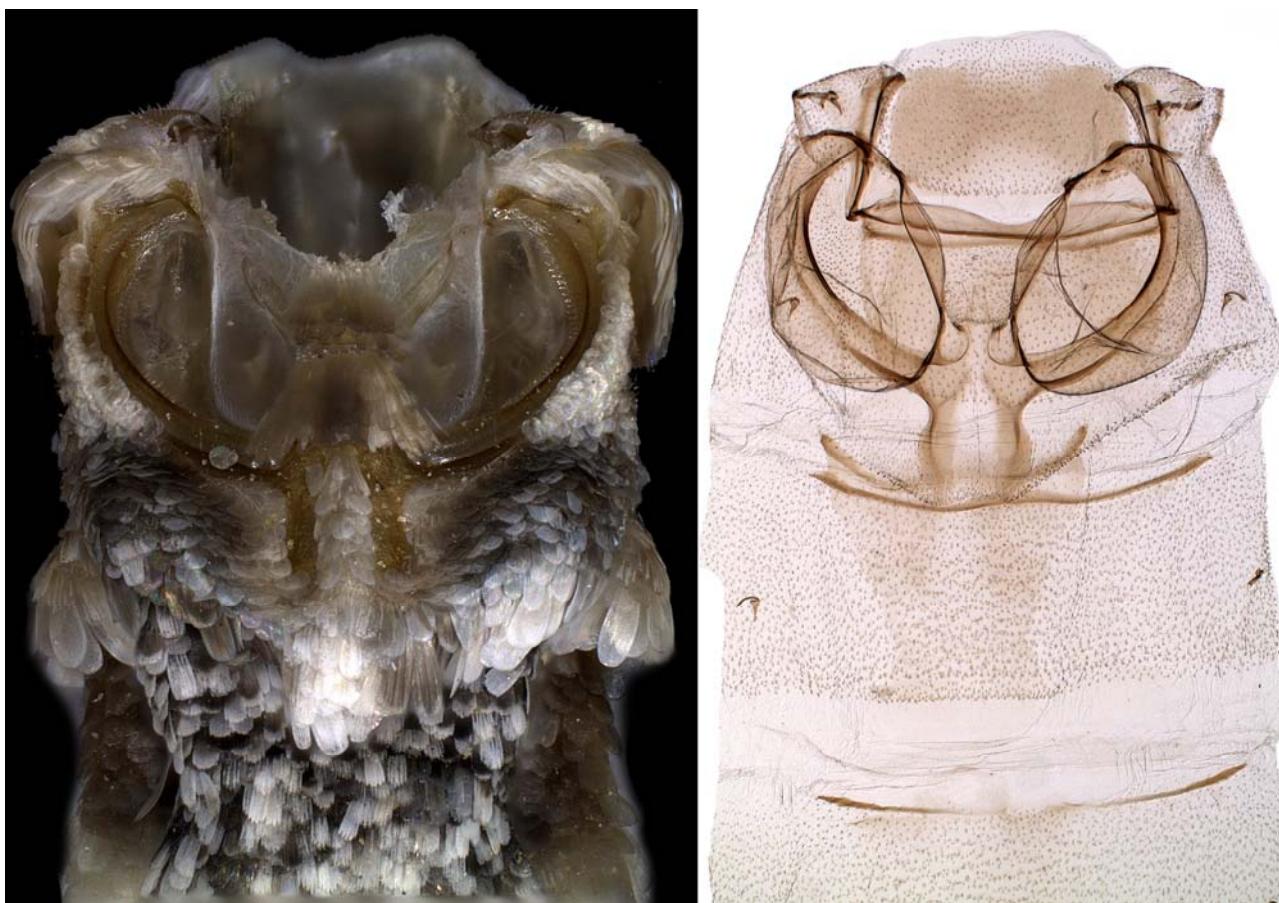
**Fig. 65** - *Pempeliella sororiella*. Male genitalia and coremata, GP2516. Bahçesaray Paşaköy 1600m (65Ai).



Figs. 66, 67 - *Pempeliella sororiella*. Ventral view of the male tympanal organ, GP2516. Before preparation (left), after preparation (right). Bahçesaray Paşaköy 1600m (65Ai).



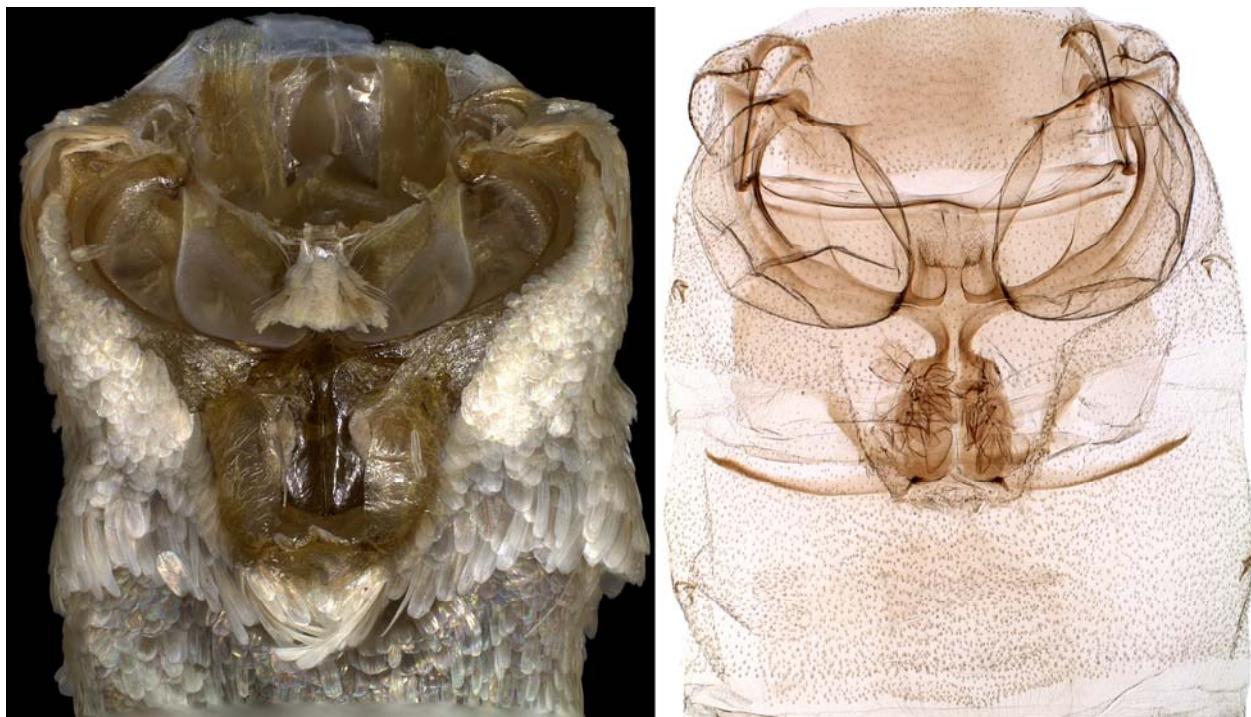
Fig. 68 - *Phycita kurdistanella*. Male genitalia and coremata, GP2487. Bahçesaray Krapet pass (65Aba) 2820m, 6.8.2016.



Figs. 69, 70 - *Phycita kurdistanella*. Ventral view of the male tympanal organ, GP2487. Before preparation (left), after preparation (right). Bahçesaray Krapet pass (65Aba) 2820m, 6.8.2016.



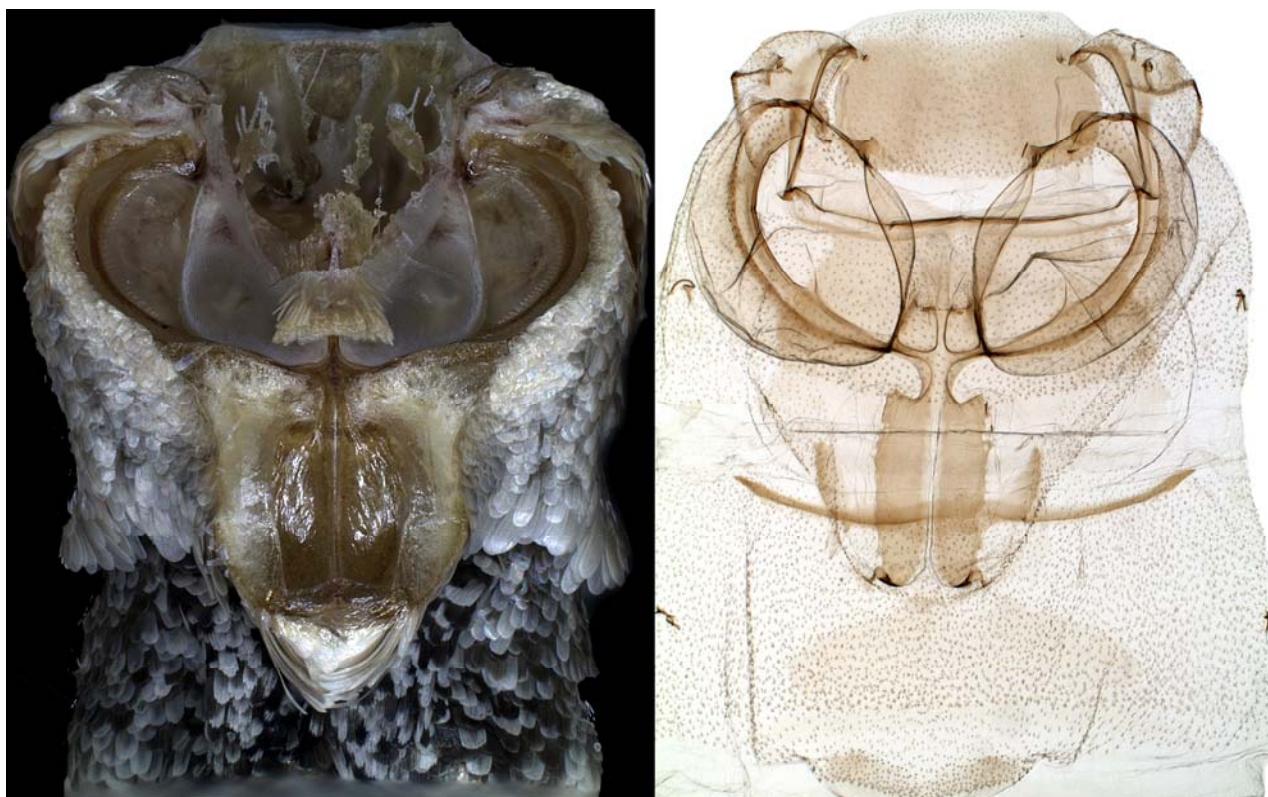
Fig. 71 - *Phycita poteriella*. Male genitalia and coremata, GP2518. Bahçesaray Paşaköy 1600m (65Ai), 4.8.2016.



**Figs. 72, 73** - *Phycita poteriella*. Ventral view of the male tympanal organ, GP2495. Before preparation (left), after preparation (right). Bahçesaray Paşaköy 1600m (65Ai), 4.8.2016.



**Fig. 74** - *Phycita spissicella*. Male genitalia and coremata, GP2494. Bahçesaray Paşaköy 1600m (65Ai), 5.7.2016.



Figs. 75, 76 - *Phycita spissicella*. Ventral view of the male tympanal organ, GP2494. Before preparation (left), after preparation (right). Bahçesaray Paşaköy 1600m (65Ai), 5.7.2016.

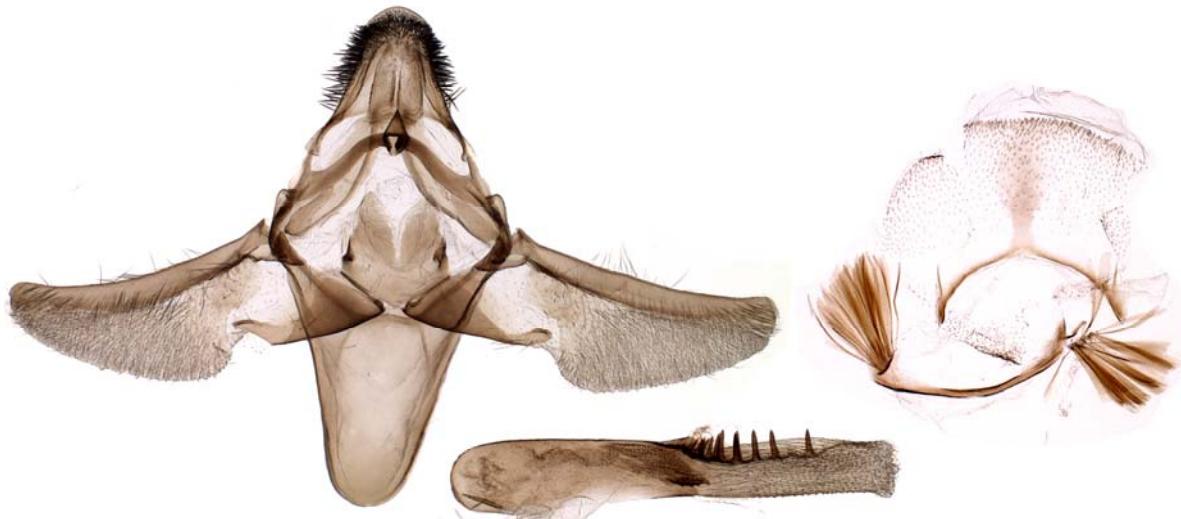
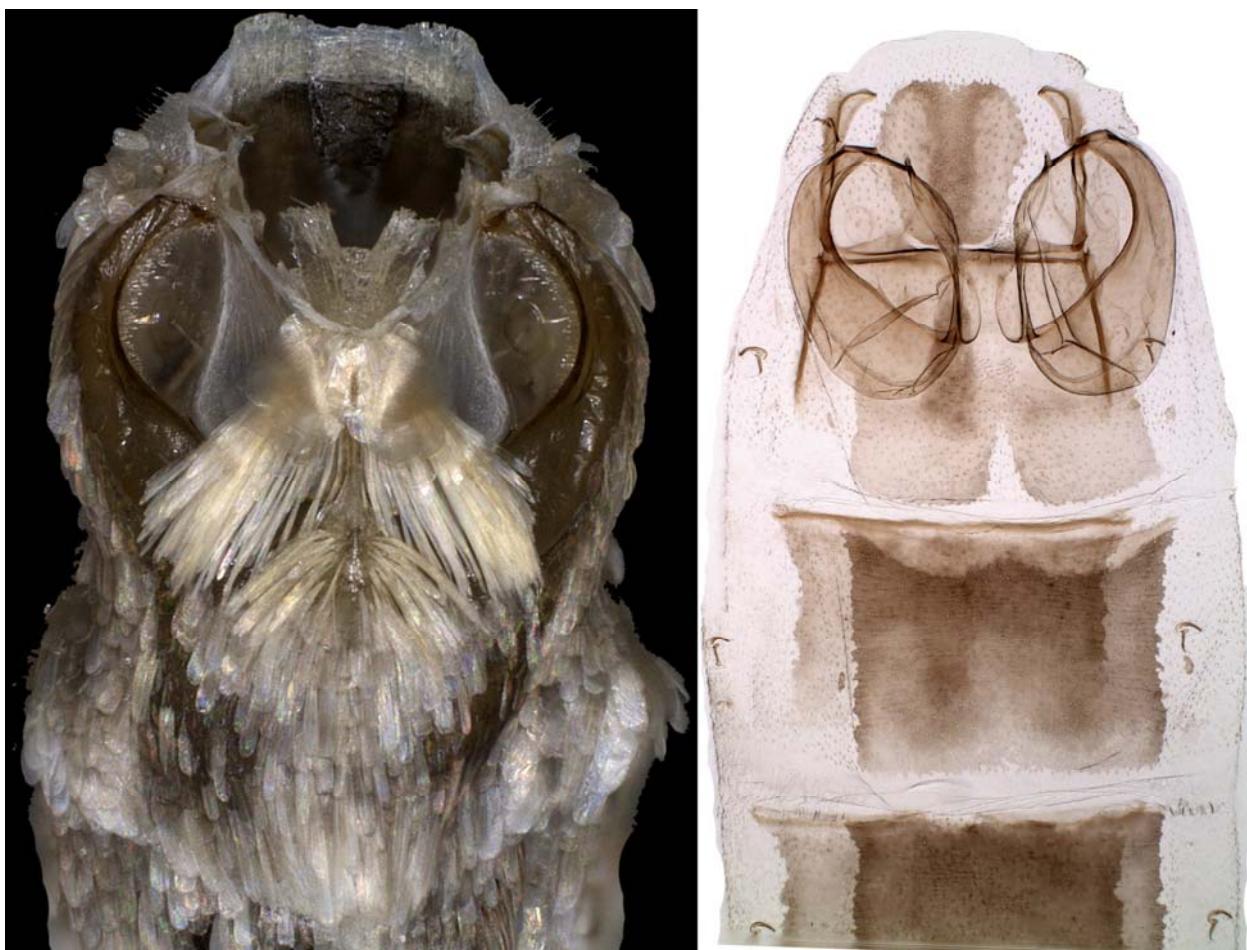


Fig. 77 - *Phycitodes albatella*. Male genitalia and coremata, GP2514. Bahçesaray Paşaköy 1600m (65Ai),



Figs. 78, 79 - *Phycitodes albatella*. Ventral view of the male tympanal organ, GP2514. Before preparation (left), after preparation (right). Bahçesaray Paşaköy 1600m (65Ai),

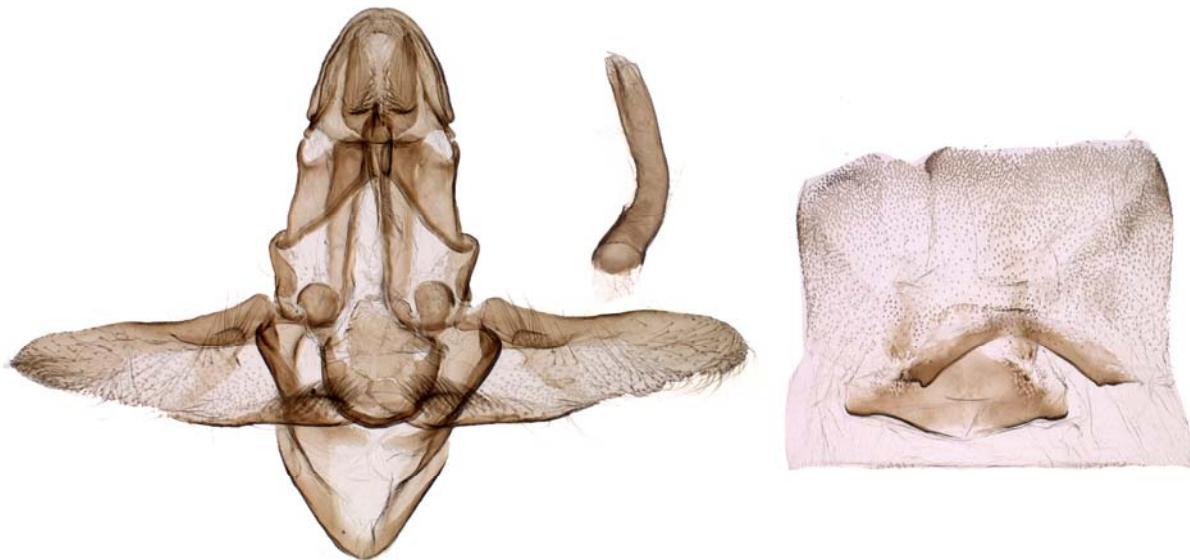
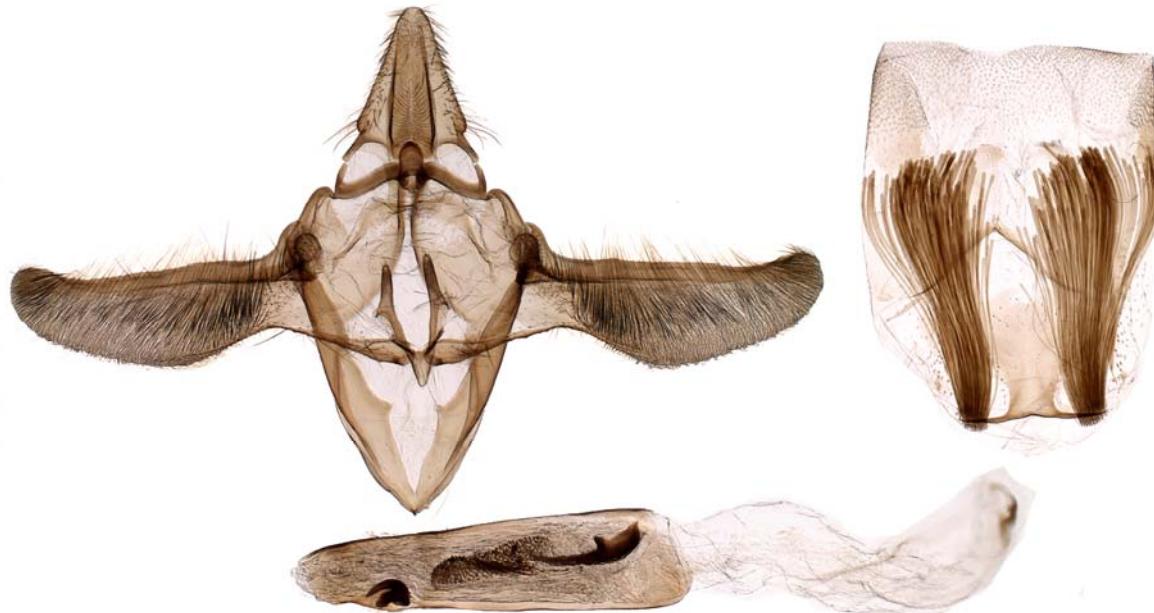


Fig. 80 - *Polyocha transversariella*. Male genitalia, GP2512. Bahçesaray Krapet pass 2820m (65Aba), 6.8.2016.



**Figs. 81, 82** - *Polyocha transversariella*. Ventral view of the male tympanal organ, GP2512. Before preparation (left), after preparation (right). Bahçesaray Krapet pass 2820m (65Aba), 6.8.2016.



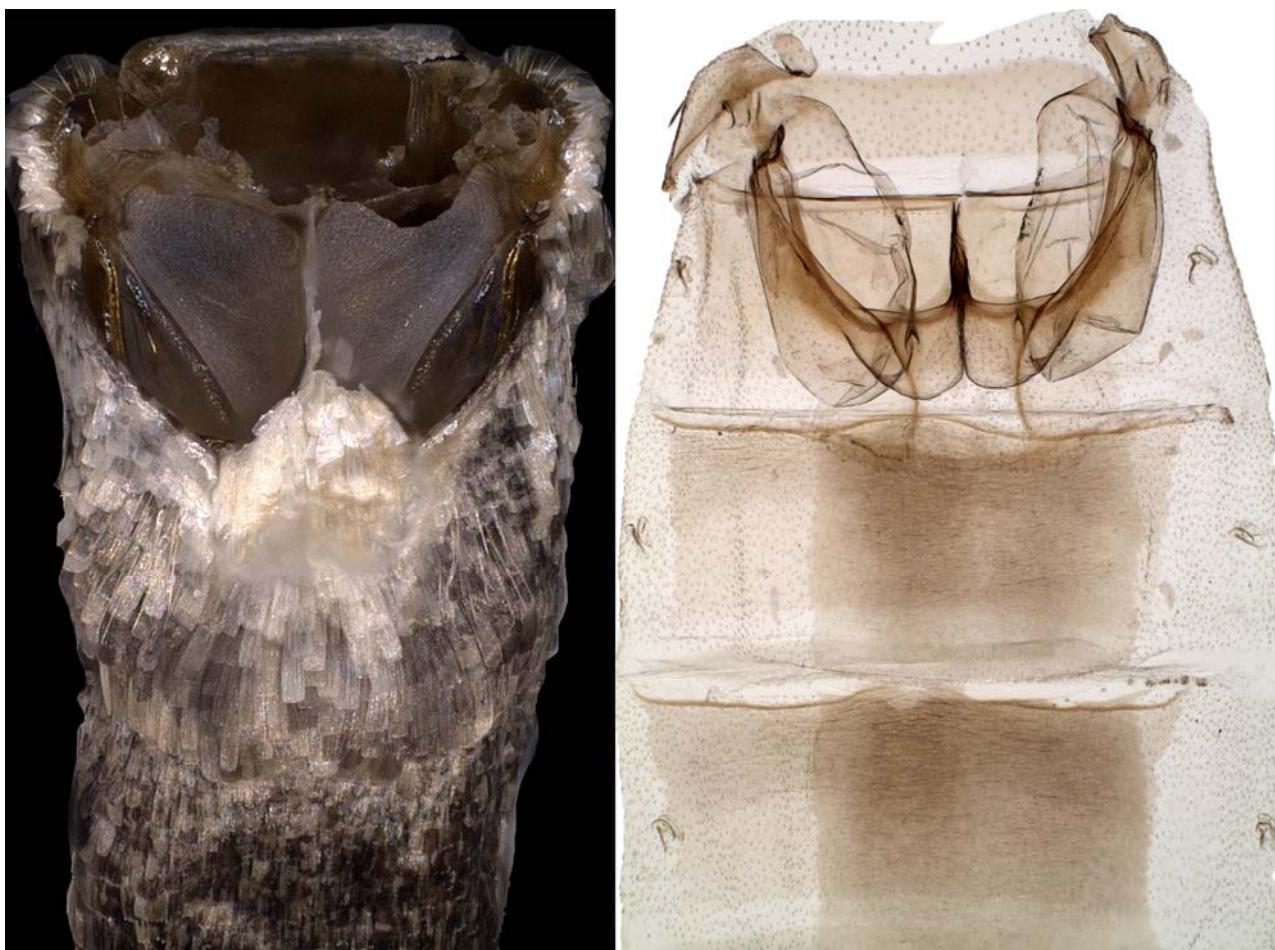
**Fig. 83** - *Psorosa maraschella*. Male genitalia and coremata, GP2489. Bahçesaray Mukus valley (65Am1) 1780m.



**Figs. 84, 85** - *Psorosa maraschella*. Ventral view of the male tympanal organ, GP2489. Before preparation (left), after preparation (right). Bahçesaray Mukus valley (65Am1) 1780m.



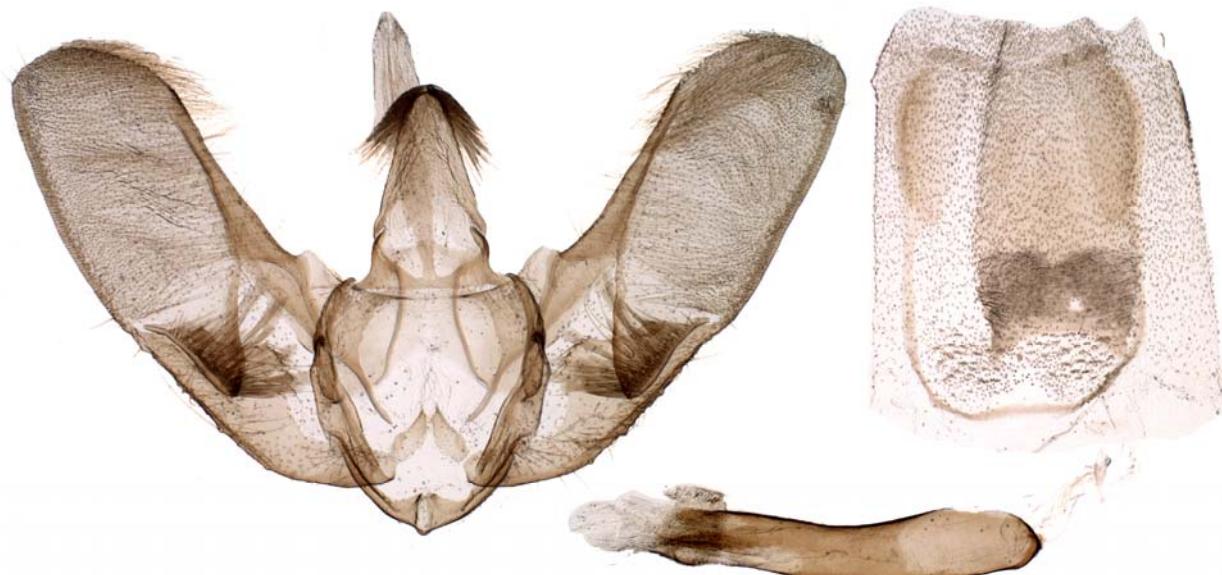
**Fig. 86** - *Pyrausta castalis*. Male genitalia and terminal abdominal segment, GP2525. Bahçesaray Upper Mukus valley (65Am4) 1840m, 23.6.2016.



**Figs. 87, 88** - *Pyrausta castalis*. Ventral view of the male tympanal organ, GP2525. Before preparation (left), after preparation (right). Bahçesaray Upper Mukus valley (65Am4) 1840m, 23.6.2016.



**Fig. 89** - *Pyrausta despicata*. Male genitalia and terminal abdominal segment, GP2526. Bahçesaray Upper Mukus valley (65Am4) 1840m, 5.8.2016.



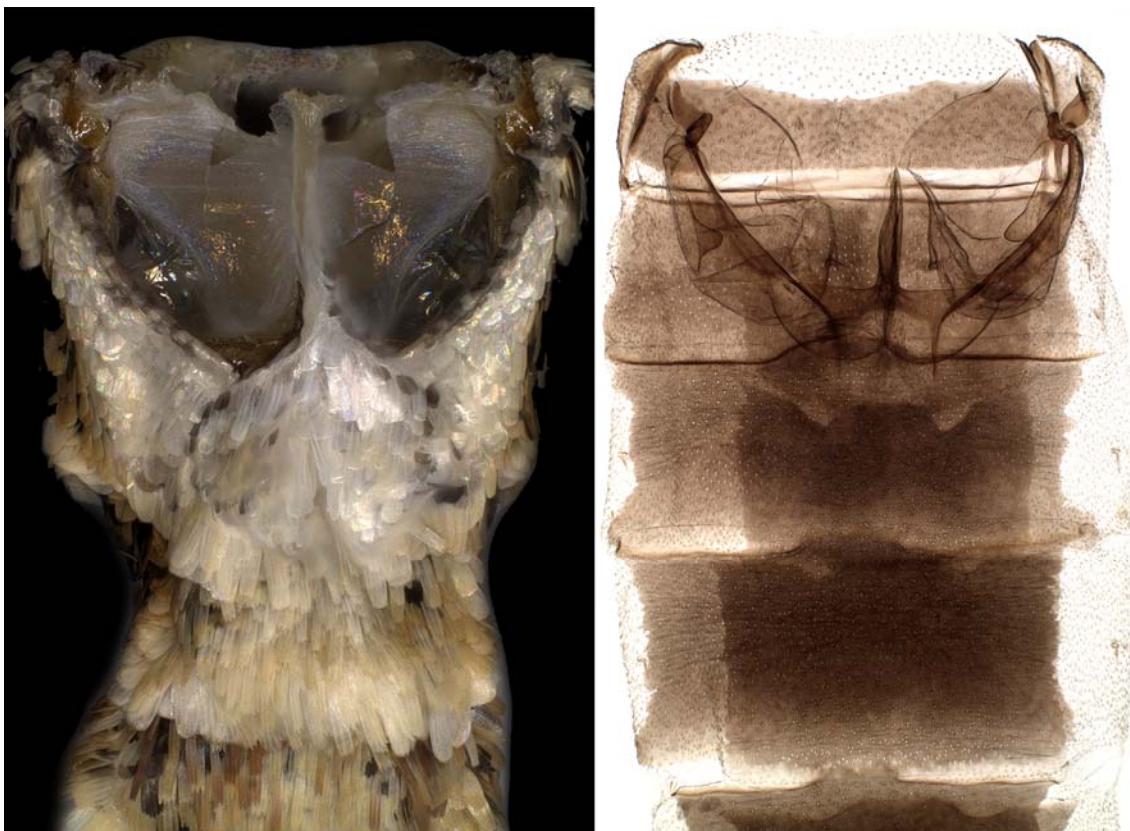
**Fig. 90** – *Pyrausta neglectalis*, male genitalia with terminal abdominal segment, GP2522. Bahçesaray, Paşaköy 1600m (65Ai), 25.6.2016.



**Figs. 91, 92** – *Pyrausta neglectalis*, Ventral view of the male tympanal organ, GP2522. Before preparation (left), after preparation (right). Bahçesaray, Paşaköy 1600m (65Ai), 25.6.2016.



**Fig. 93** – *Pyrausta obfuscata*, male genitalia with terminal abdominal segment, GP2527. Bahçesaray, Upper Mukus Valley 1785m (65Am2), 15.7.2016.



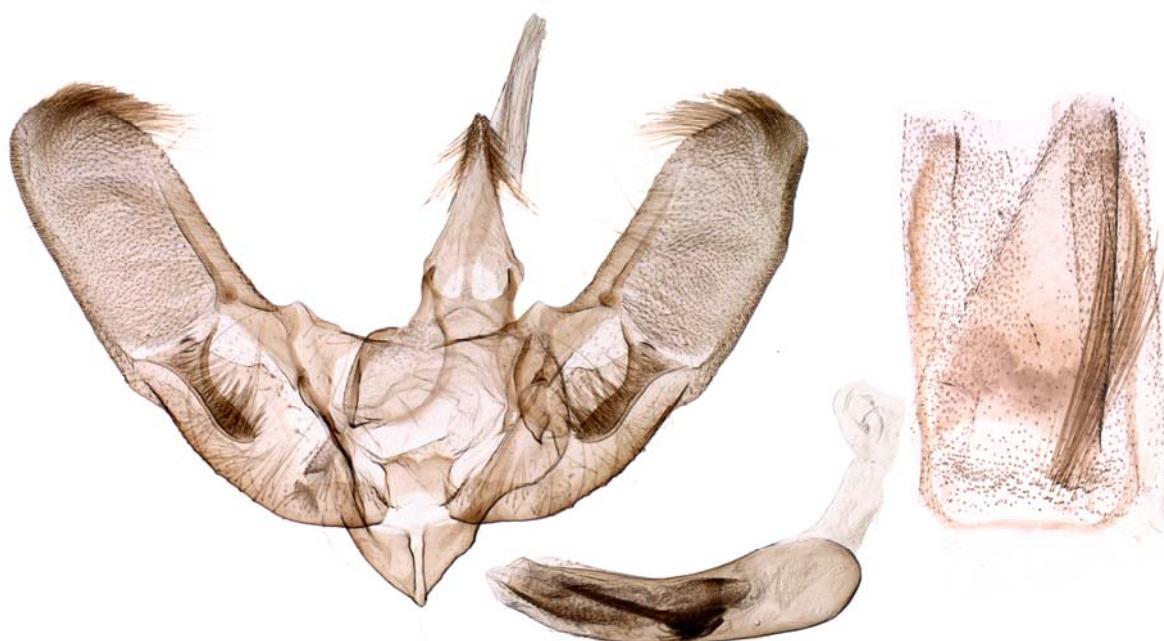
**Figs. 94, 95** – *Pyrausta obfuscata*. Ventral view of the male tympanal organ, GP2527. Before preparation (left), after preparation (right). Bahçesaray, Upper Mukus Valley 1785m (65Am2), 15.7.2016.



**Fig. 96** – *Pyrausta purpuralis*, male genitalia with terminal abdominal segment, GP2528. Bahçesaray, Bağcılar NE 2040m (65As), 4.6.2016.



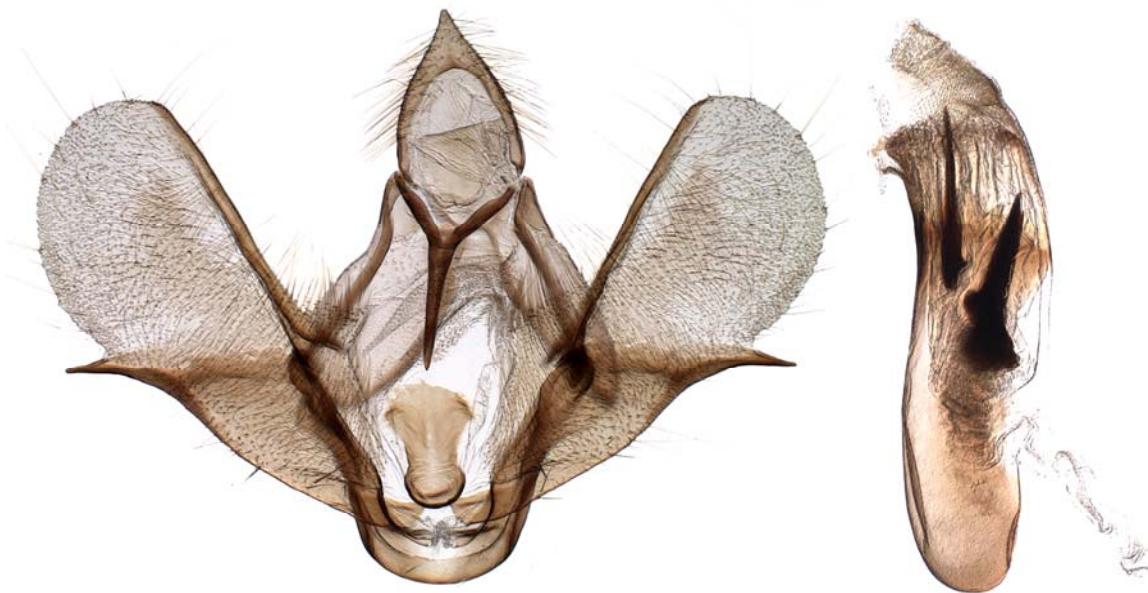
**Figs. 97, 98** – *Pyrausta purpuralis*. Ventral view of the male tympanal organ, GP2528. Before preparation (left), after preparation (right). Bahçesaray, Bağcılar NE 2040m (65As), 4.6.2016.



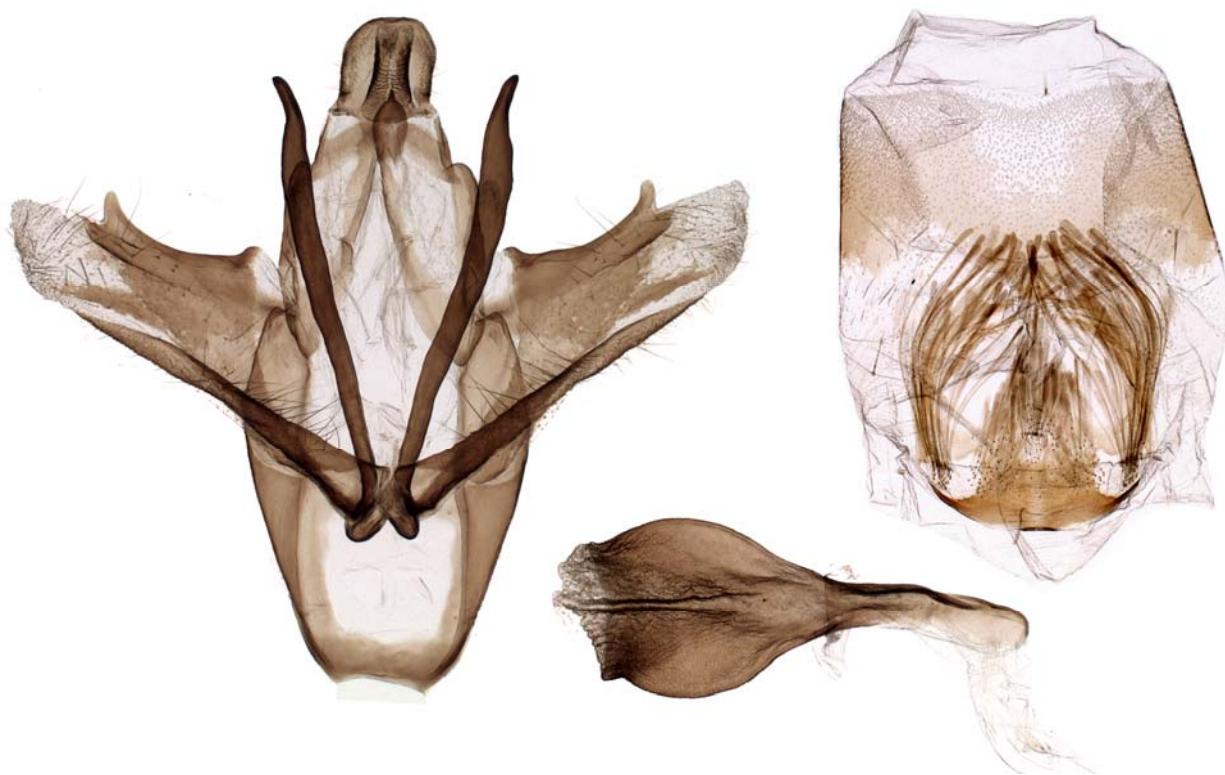
**Fig. 99** – *Pyrausta sanguinalis*, male genitalia with terminal abdominal segment, GP2520. Bahçesaray, Upper Mukus Valley 1780m (65Am1), 6.7.2016.



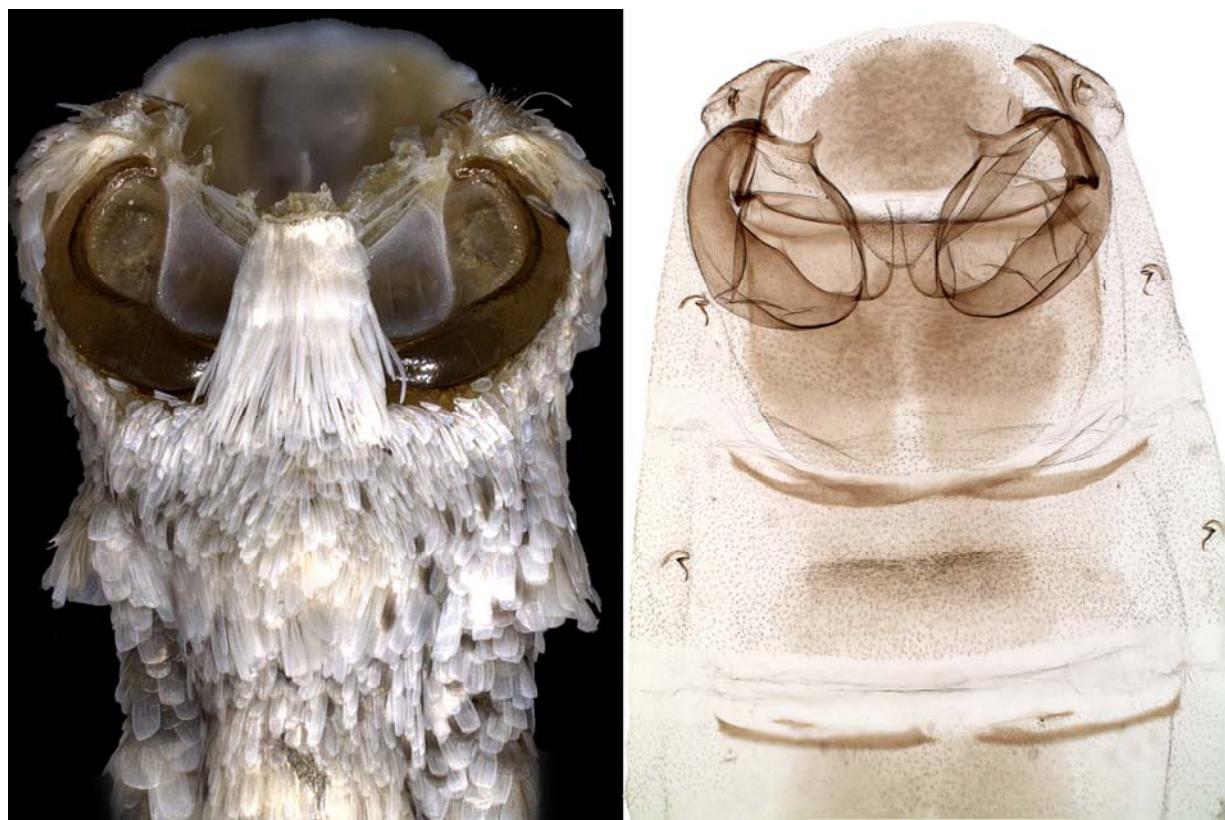
**Figs. 100, 101** – *Pyrausta sanguinalis*. Ventral view of the male tympanal organ, GP2520. Before preparation (left), after preparation (right). Bahçesaray, Upper Mukus Valley 1780m (65Am1), 6.7.2016.



**Fig. 102** - *Scoparia subfusca*. Male genitalia, GP2482. Bahçesaray Paşaköy (65Ai) 1600m, 5.7.2016.



**Fig. 103** - *Sefidia clasperella*. Male genitalia and coremata, GP2501. Bahçesaray Paşaköy (65Ai) 1600m, 25.6.2016.



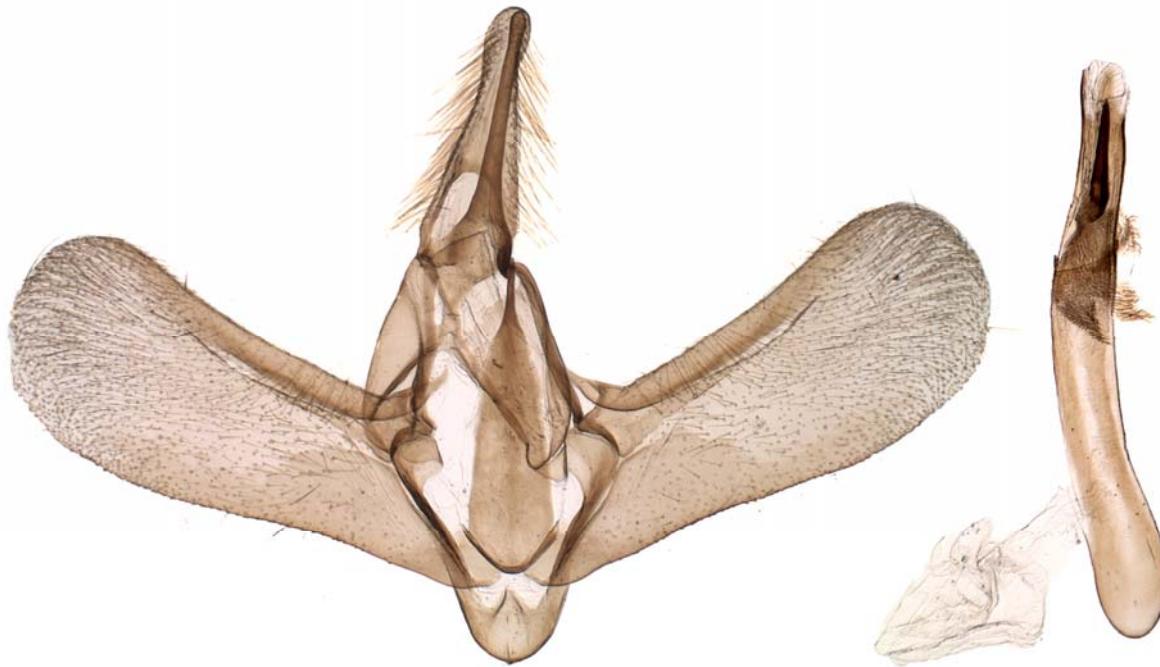
Figs. 104, 105 - *Sefidia clasperella*. Ventral view of the male tympanal organ, GP2501. Before preparation (left), after preparation (right). Bahçesaray Paşaköy (65Ai) 1600m, 25.6.2016.



Fig. 106 - *Sitochroa straminealis*. Male genitalia, GP2523. Bahçesaray Upper Mukus Valley 1840m (65Am4), 5.8.2016.



**Figs. 107, 108** – Ventral view of the male tympanal organs, before preparation. *Sitochroa straminealis* (left), GP2523. Bahçesaray Upper Mukus Valley 1840m (65Am4) 5.8.2016; *Pyrausta despicata* (right), GP2526, from the same place and date.

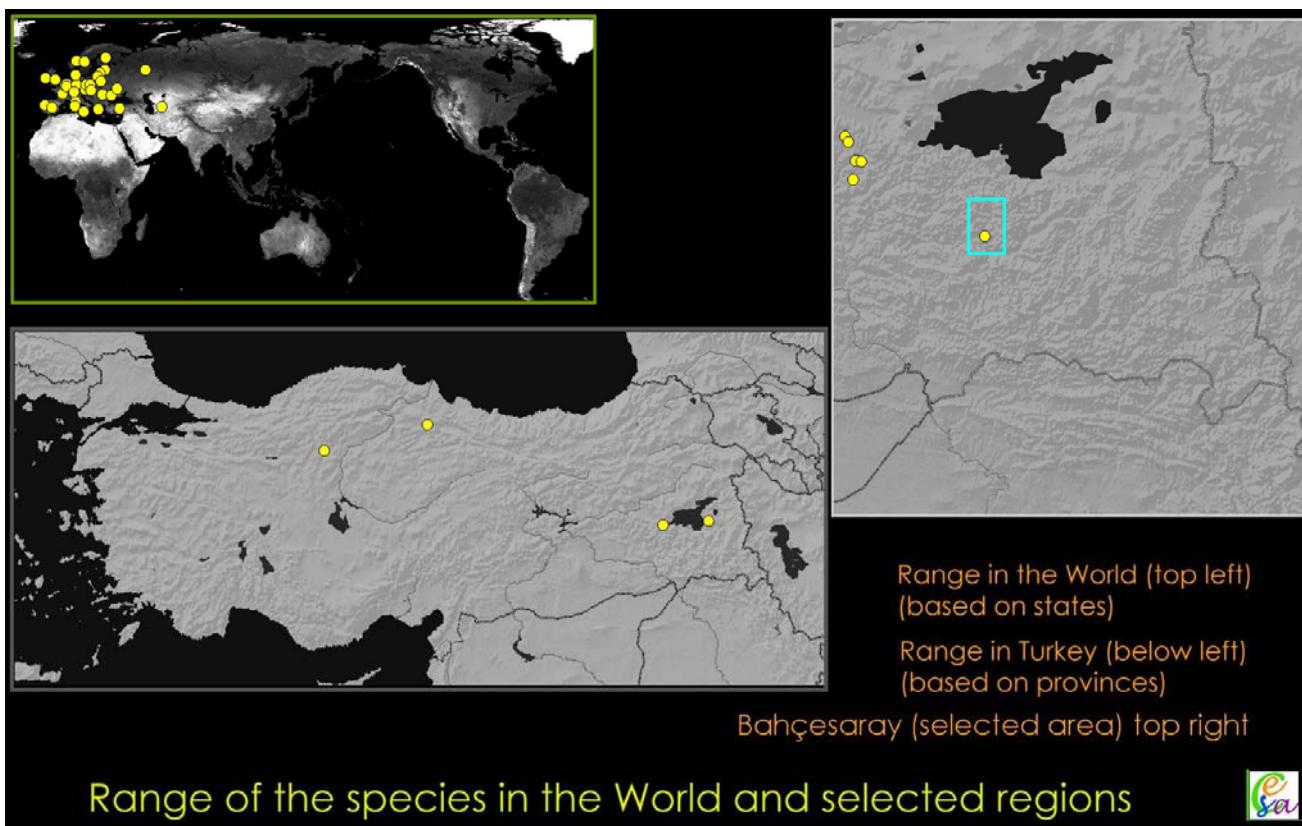
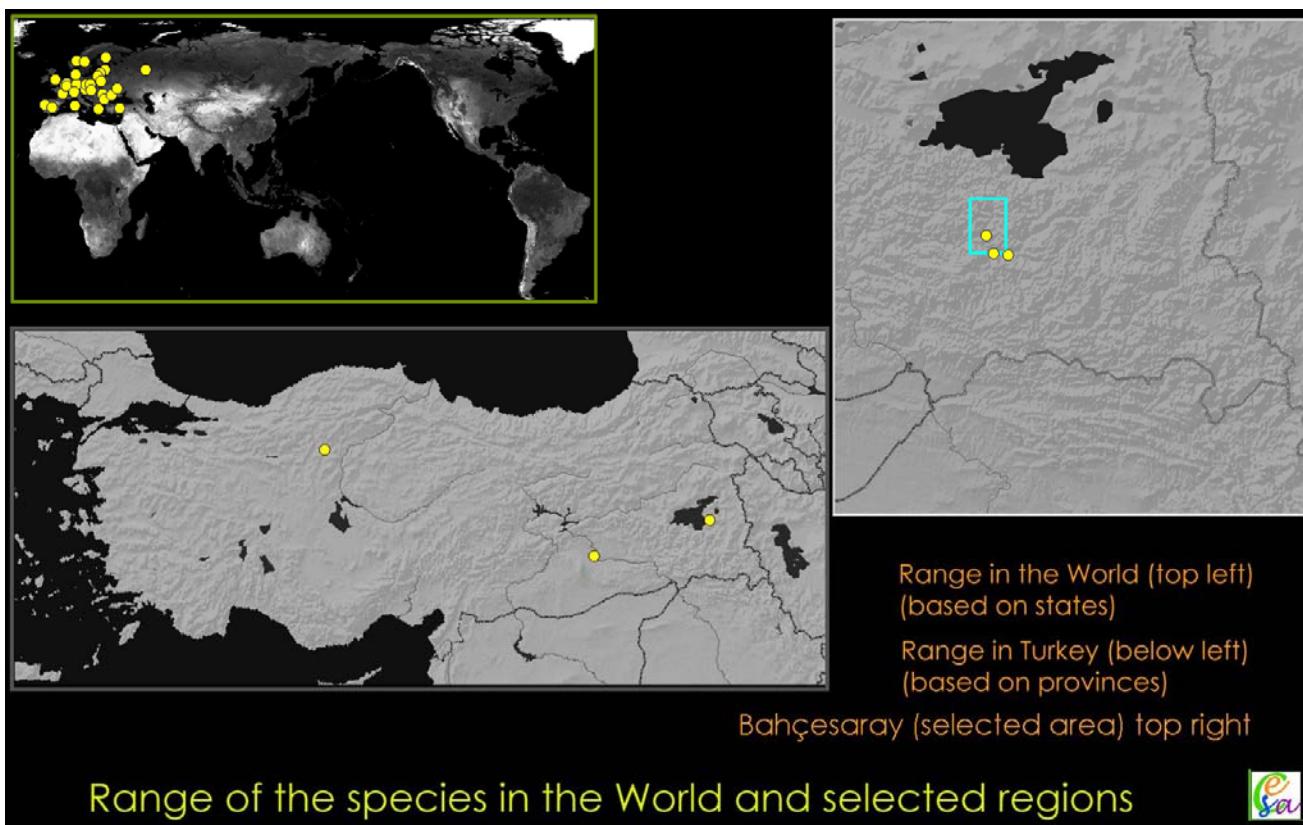


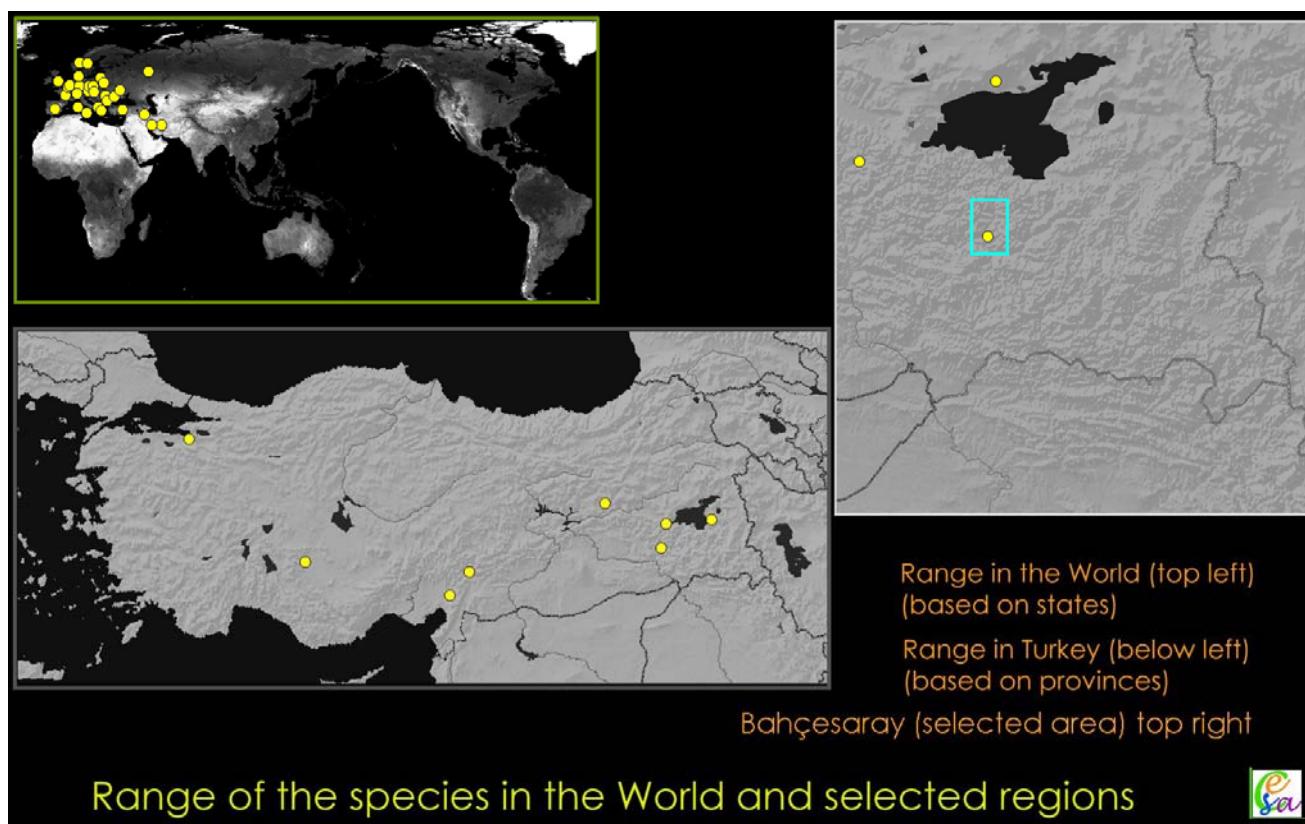
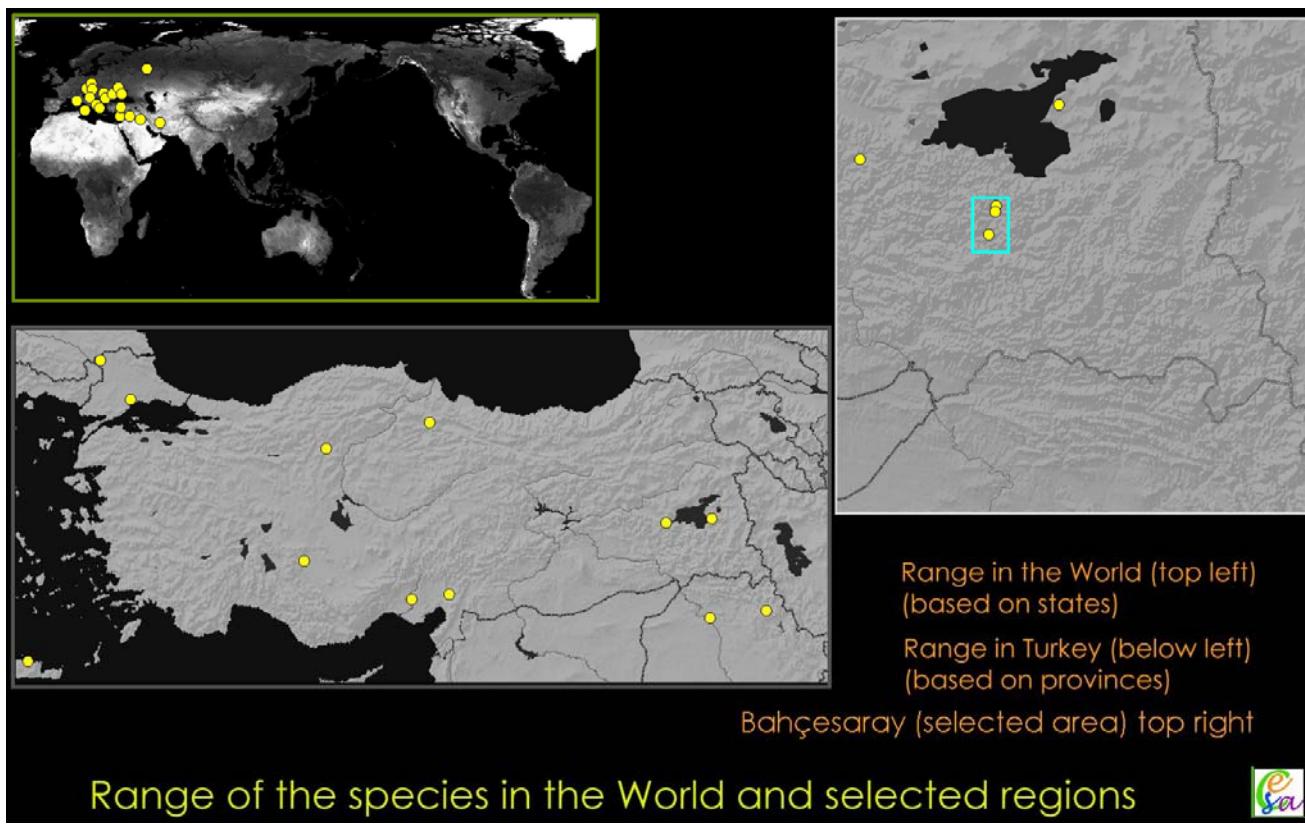
**Fig. 109** - *Syrianarpia mendicalis*. Male genitalia, GP2465. Bahçesaray Krapet Pass 2820m (65Aba), 6.8.2006.

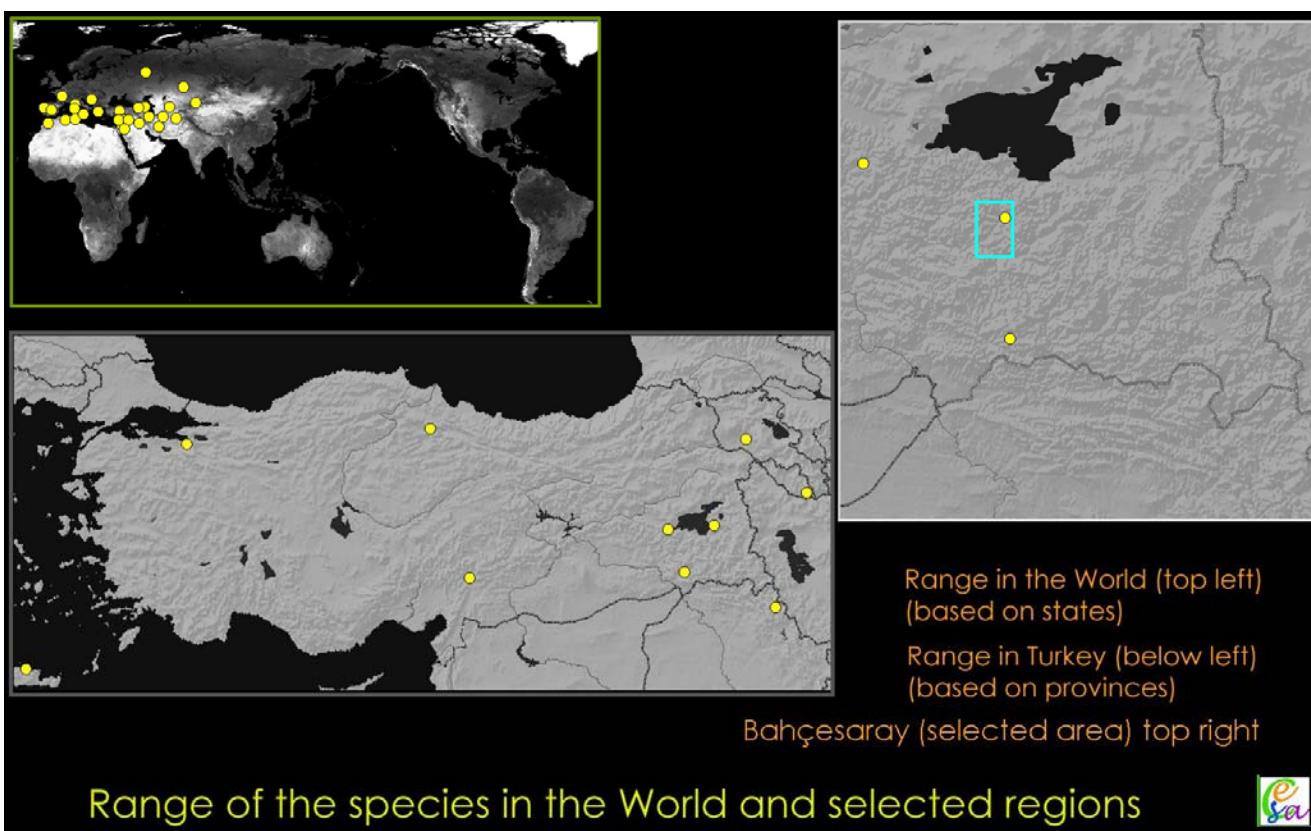
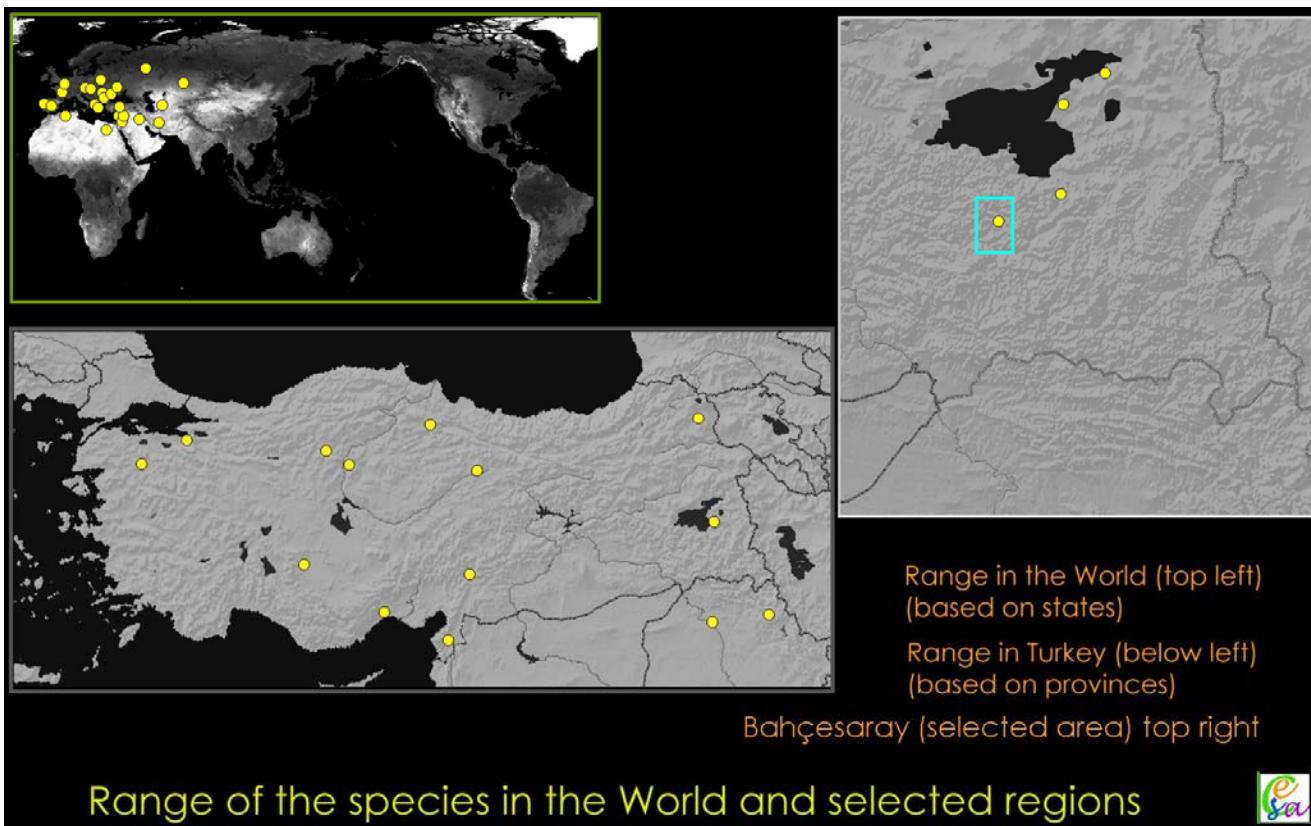


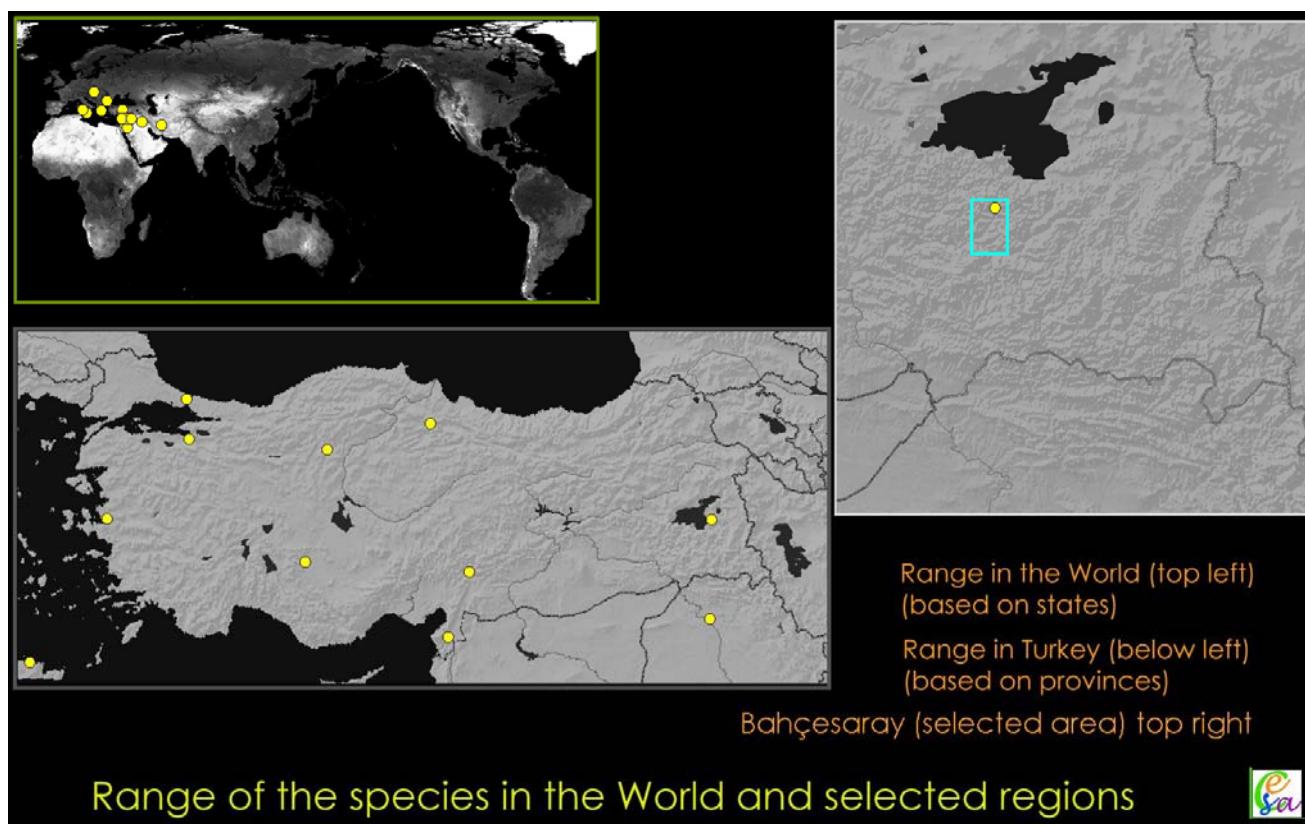
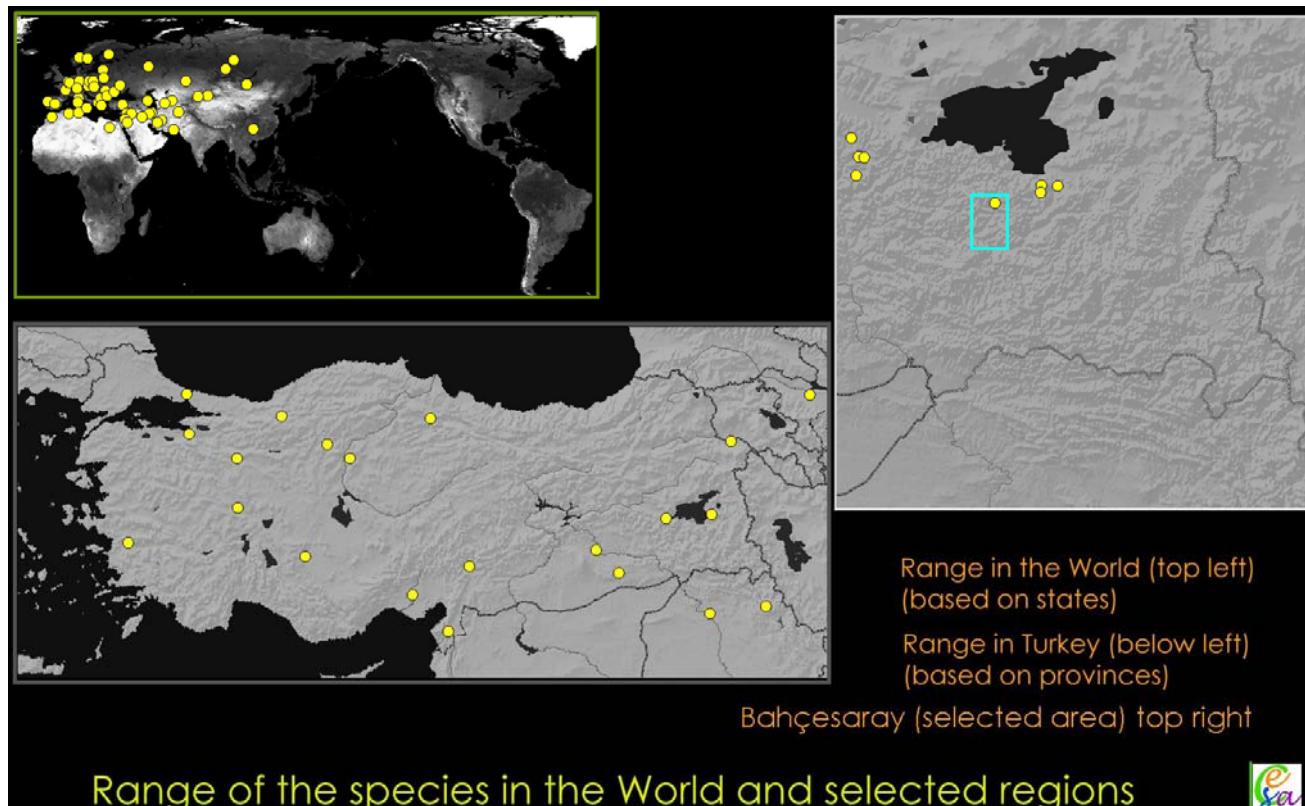
**Figs. 110, 111 -** *Syrianarpia mendicalis*. Ventral view of the male genitalia, GP2465. Before preparation (left), after preparation (right). Bahçesaray Krapet Pass 2820m (65Aba), 6.8.2106.

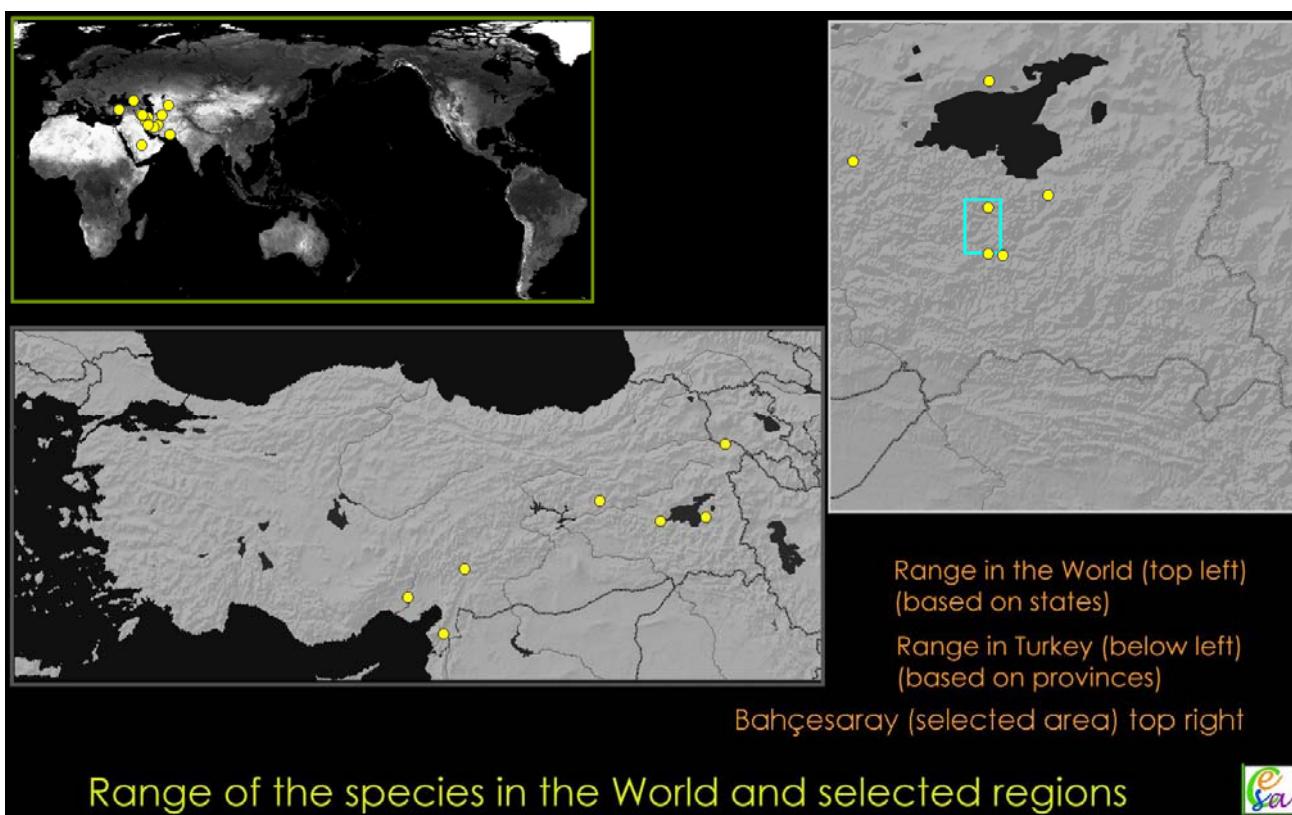
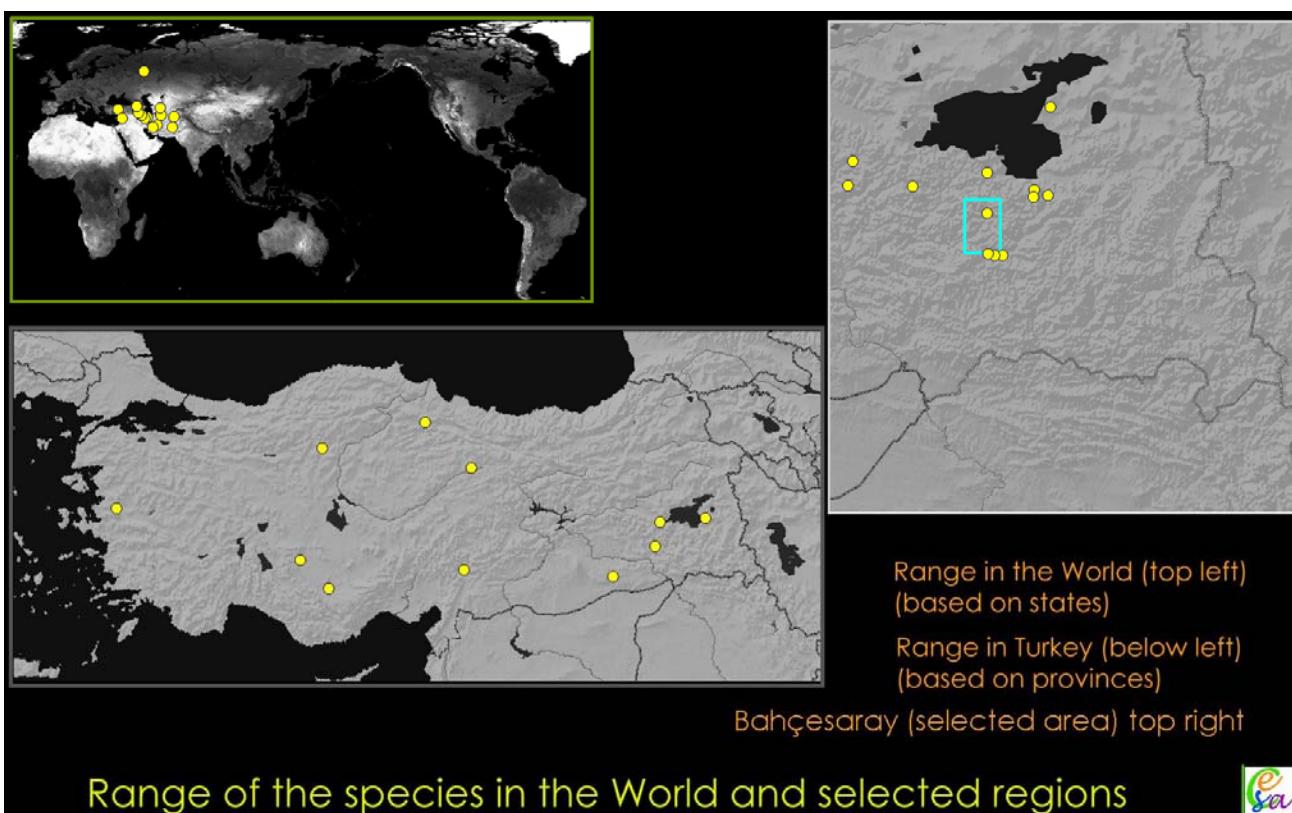
## Maps

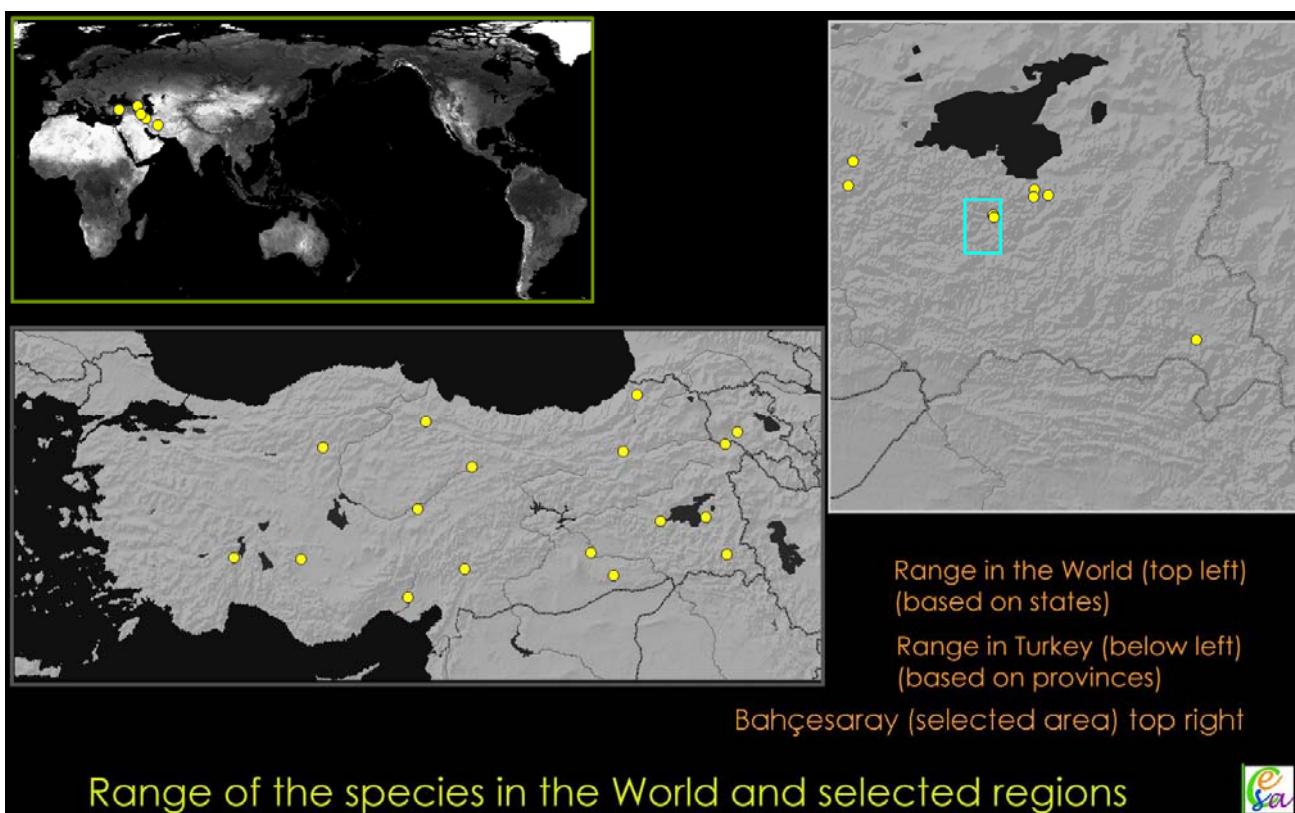
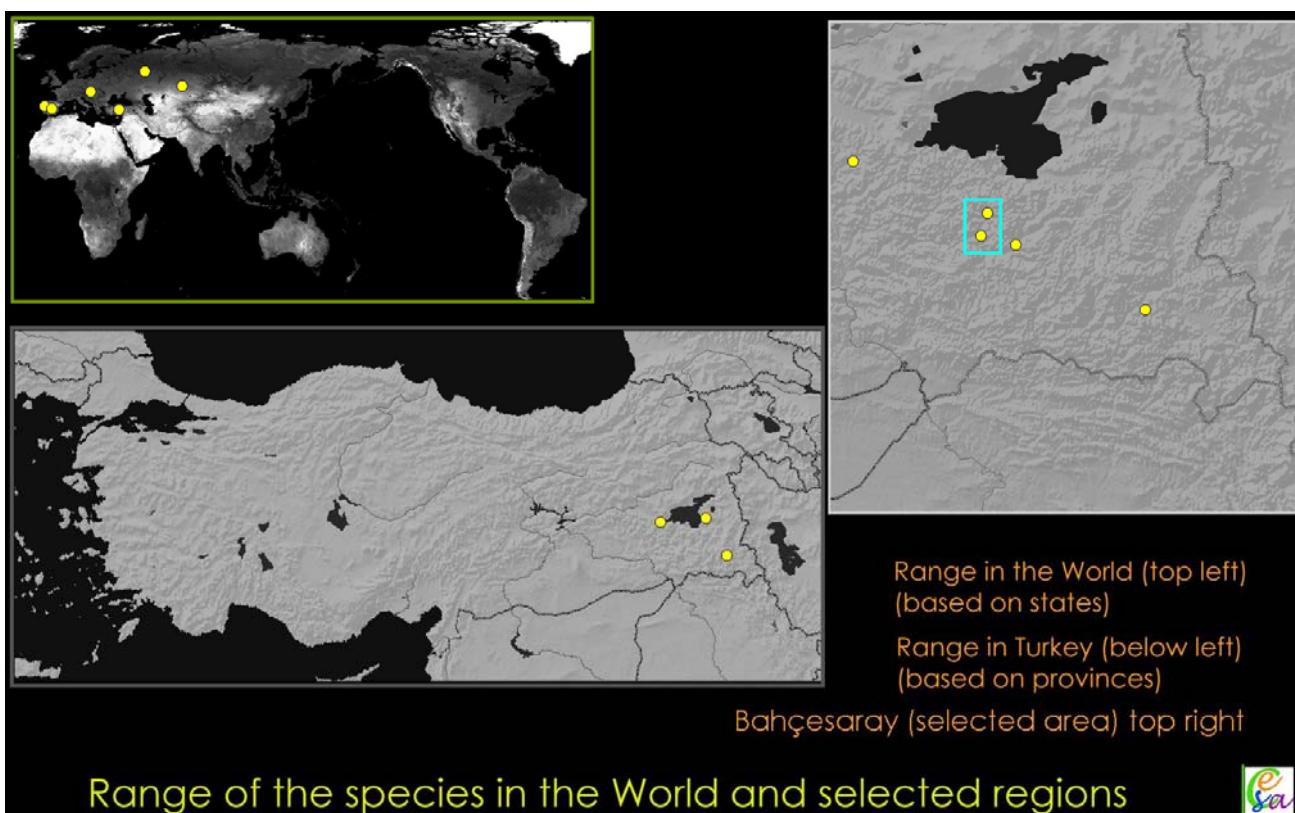
Map 1 (318) - *Acrobasis consociella*.Map 2 (320) - *Acrobasis repandana*.

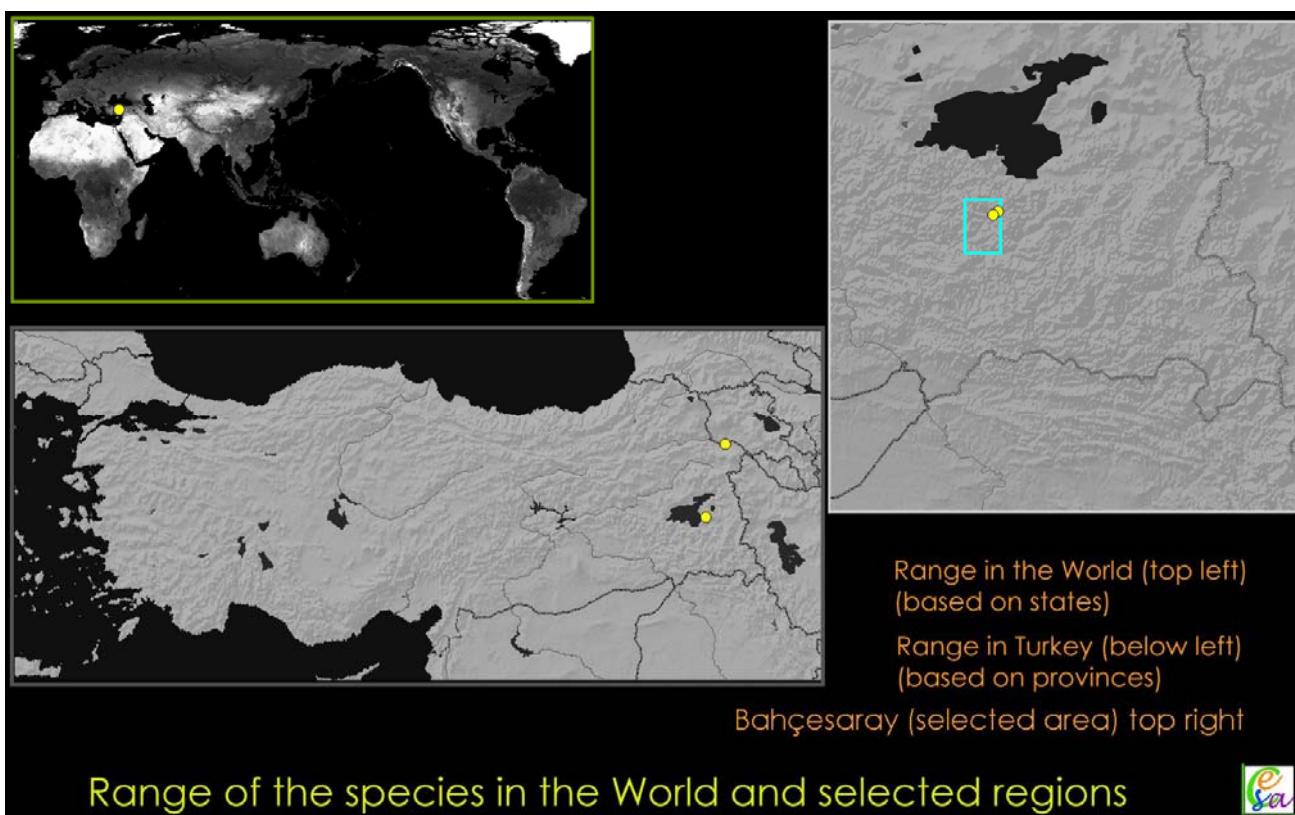
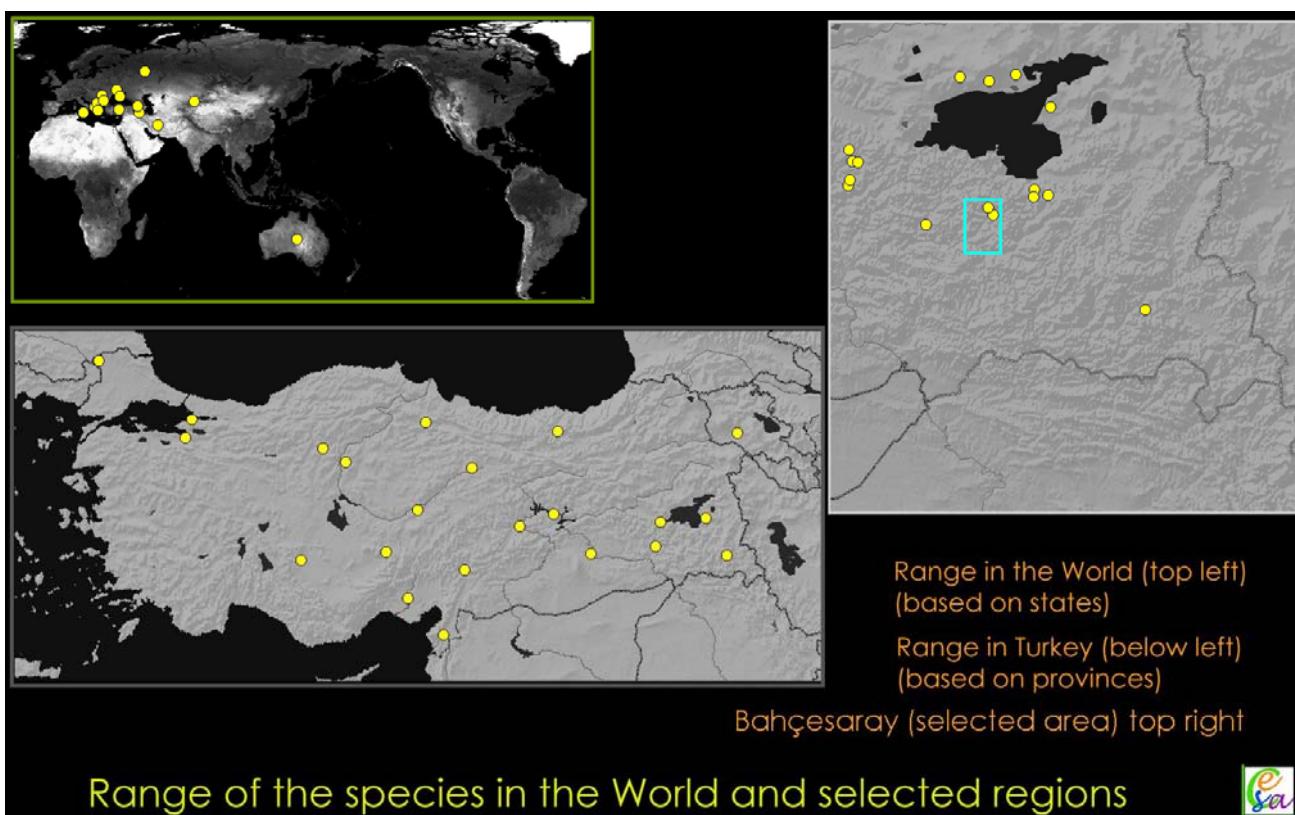
Map 3 (321) - *Acrobasis tumidana*.Map 4 (323) - *Agiphila tolli*

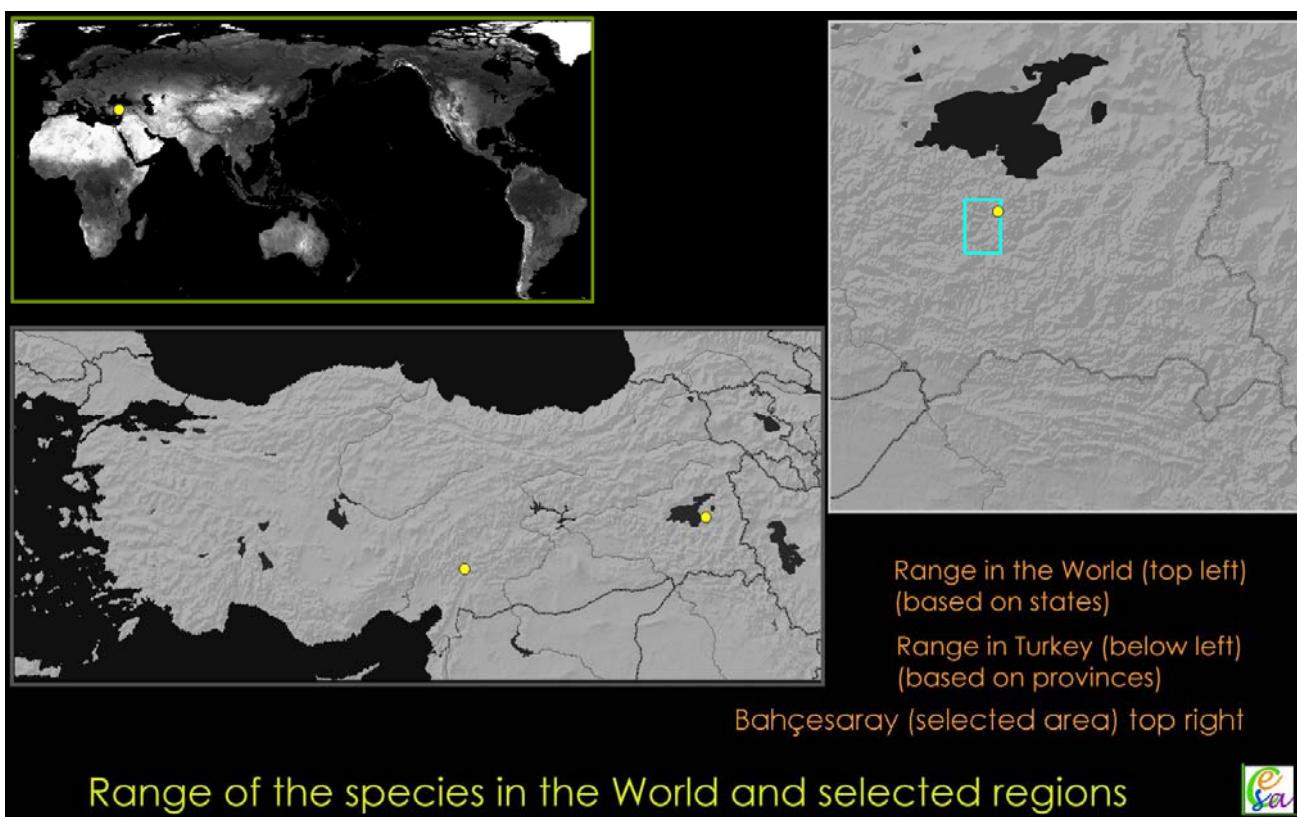
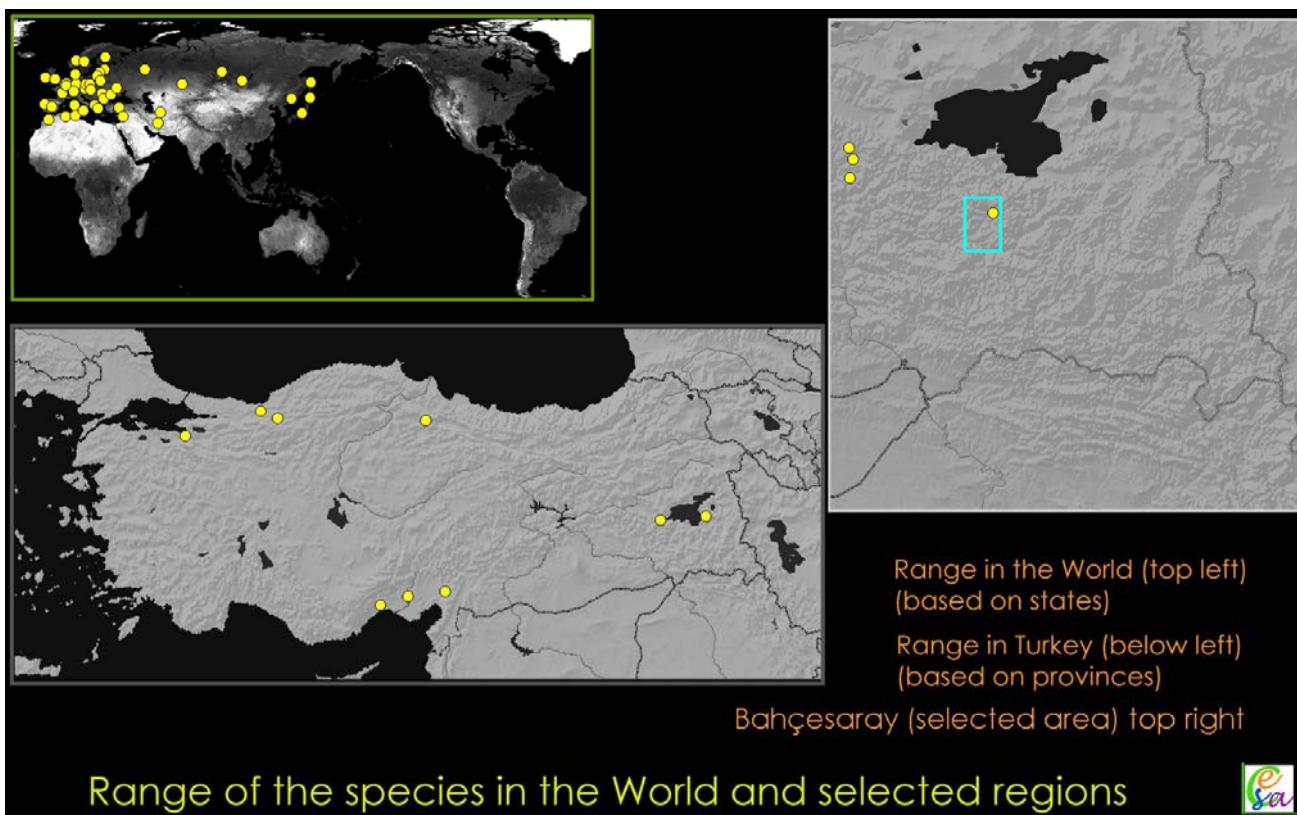
Map 5 (324) - *Anarpia incertalis*Map 6 (325) - *Ancylolomia palpella*

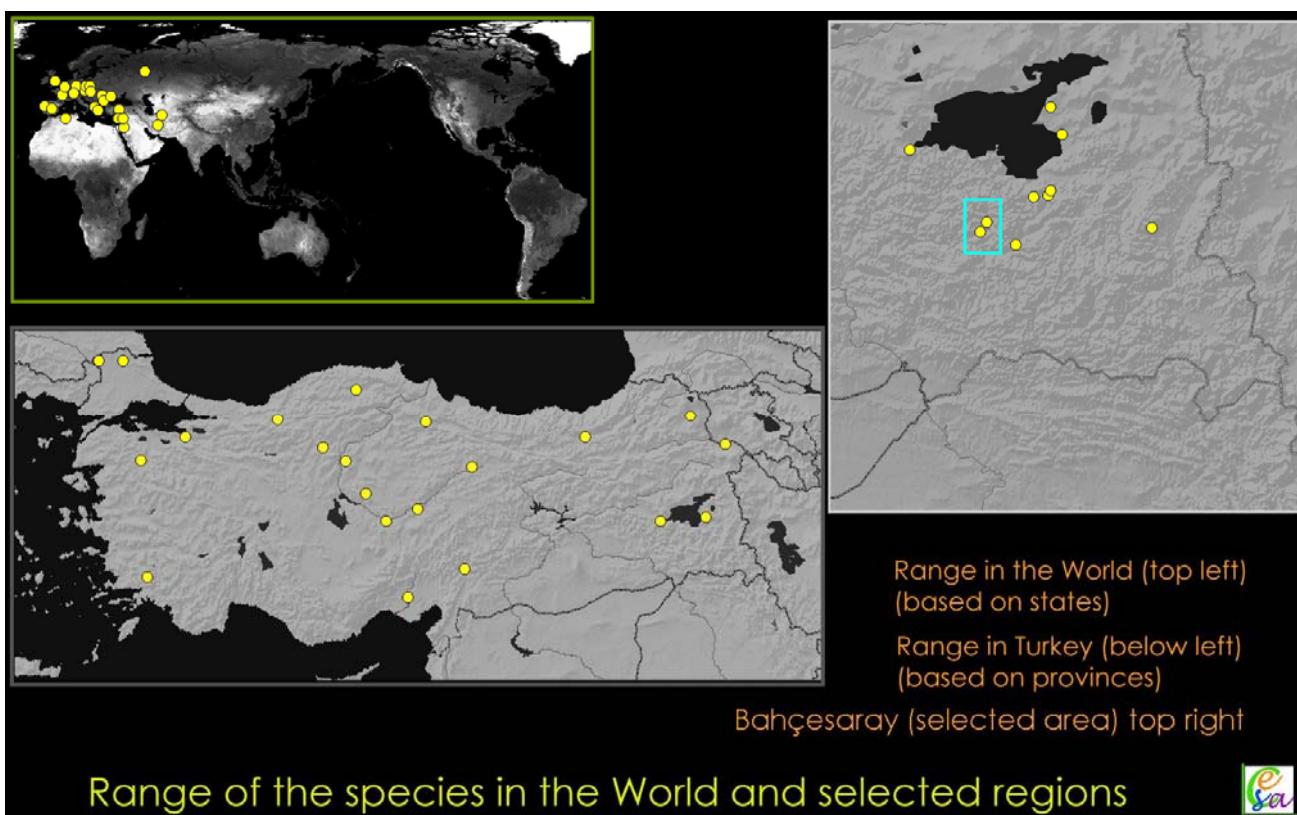
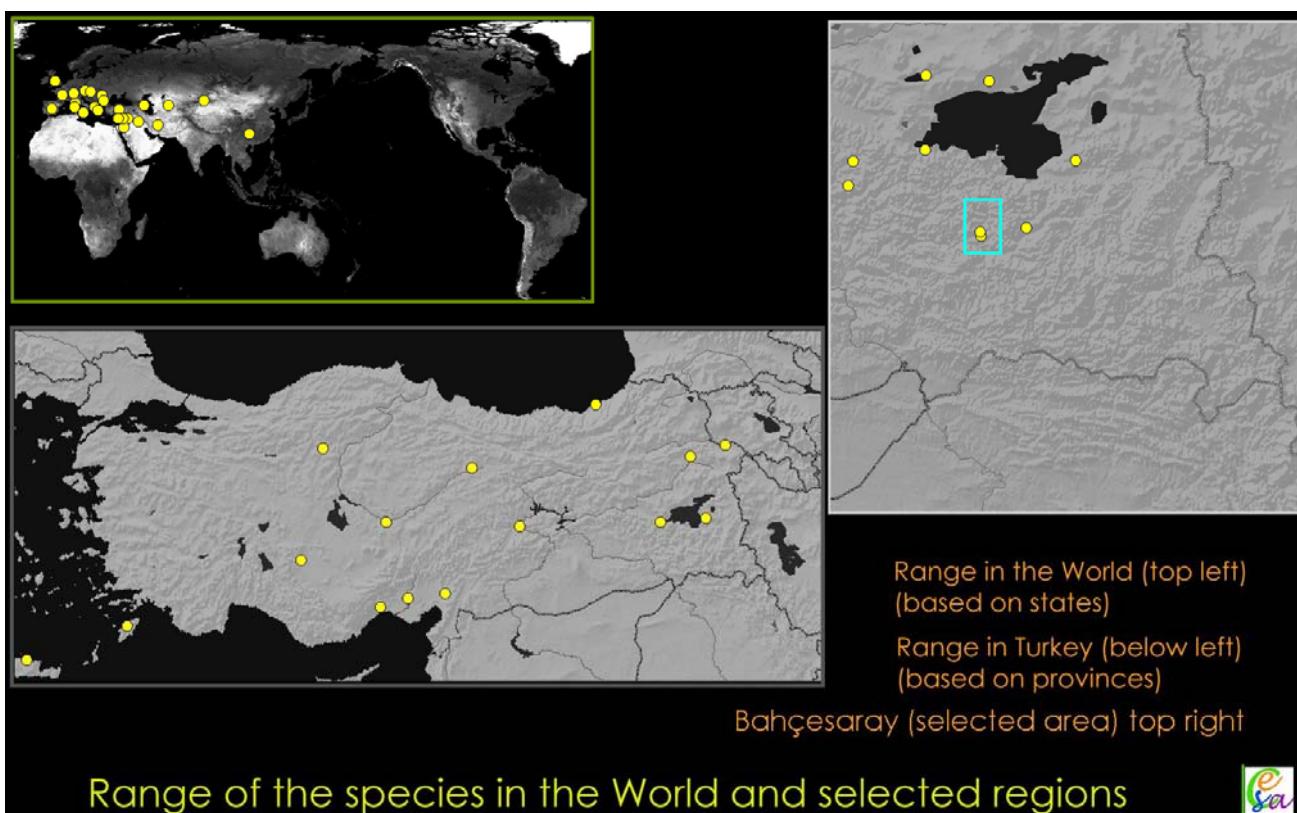
Map 7 (326) - *Ancylolomia pectinatella*Map 8 (327) - *Ancylolomia cinnamomella*

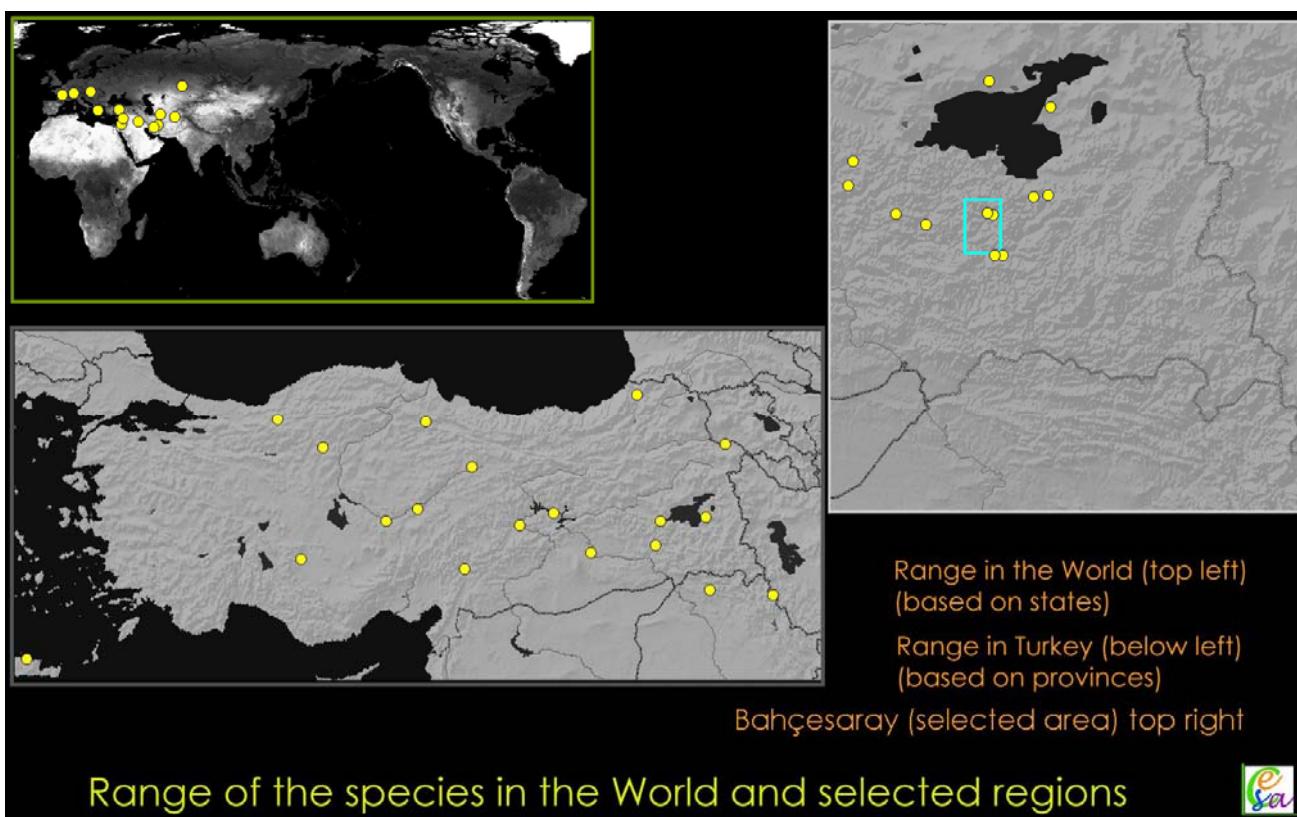
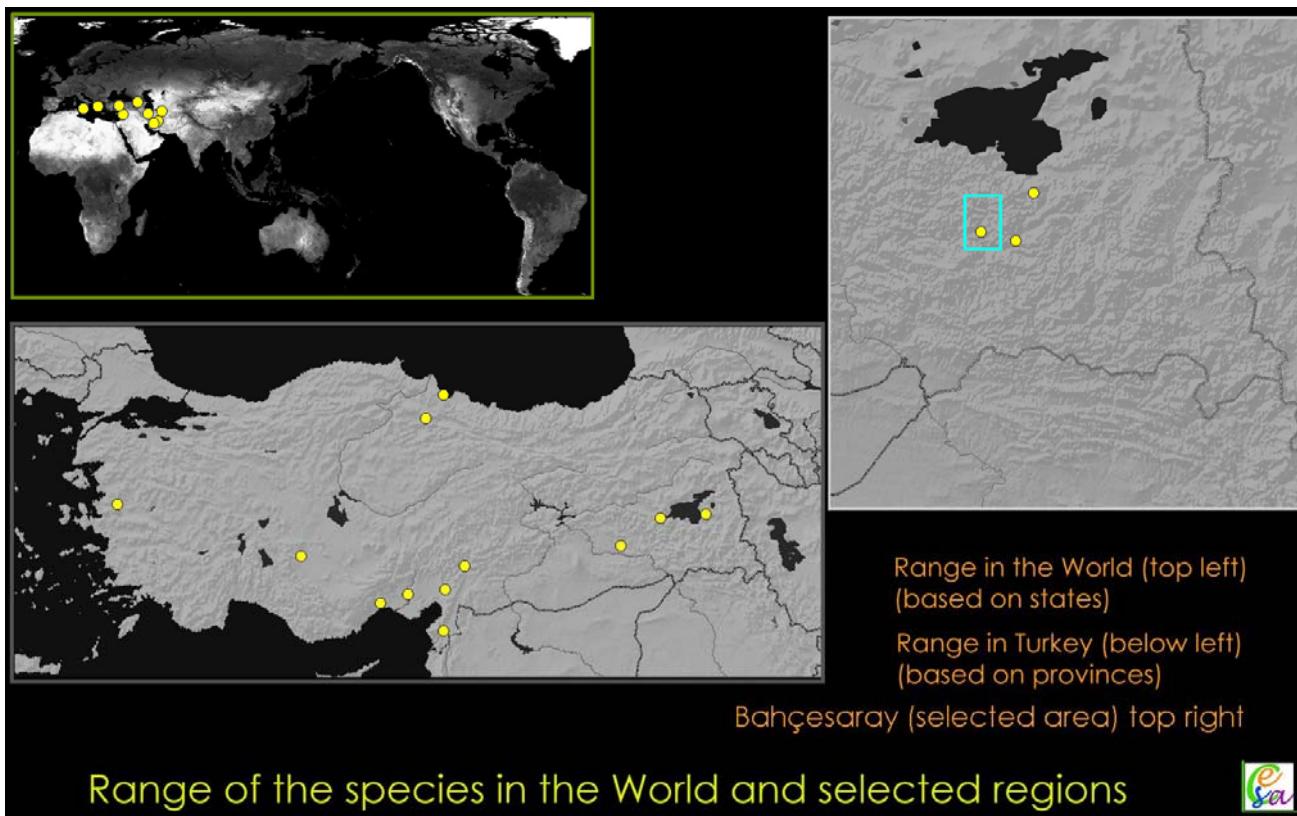
Map 9 (329) - *Arsissa divaricella*Map 10 (330) - *Arsissa ramosella*

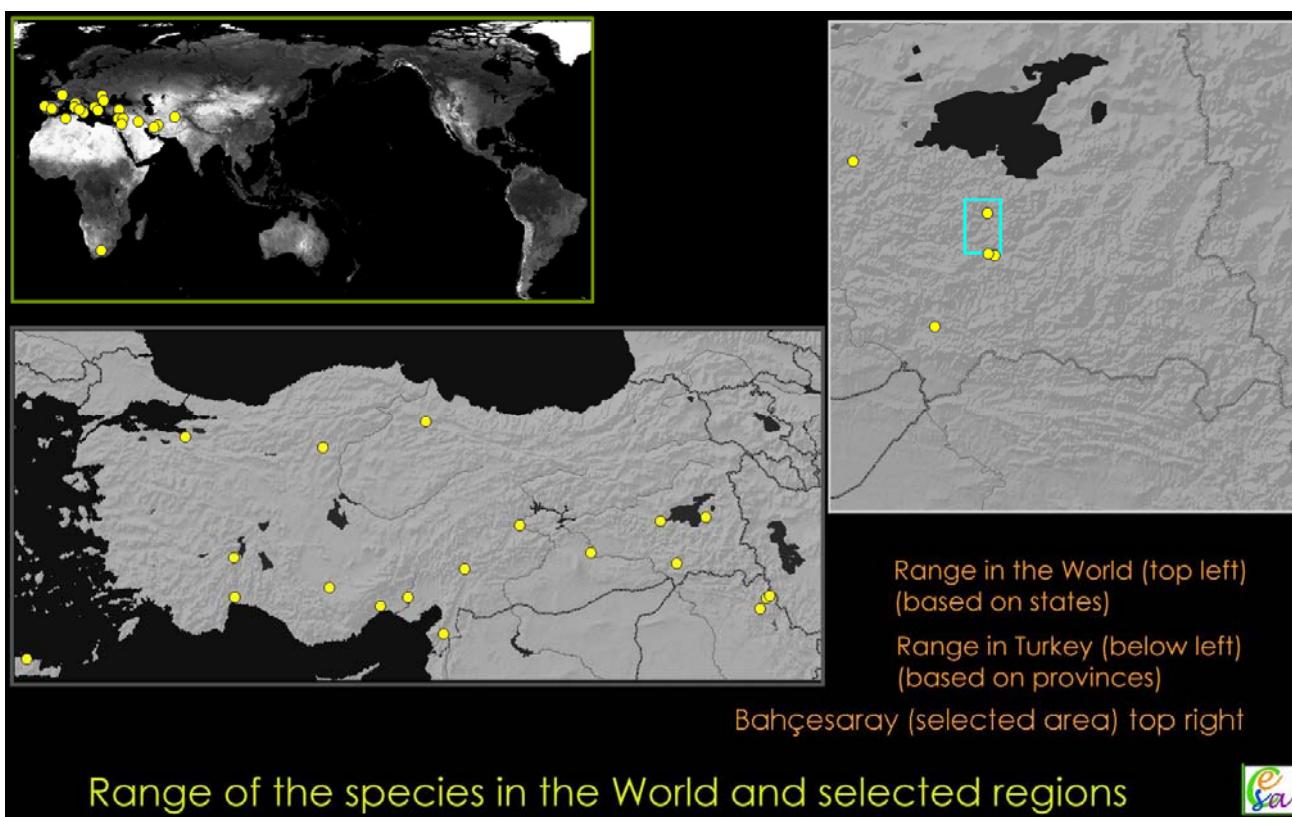
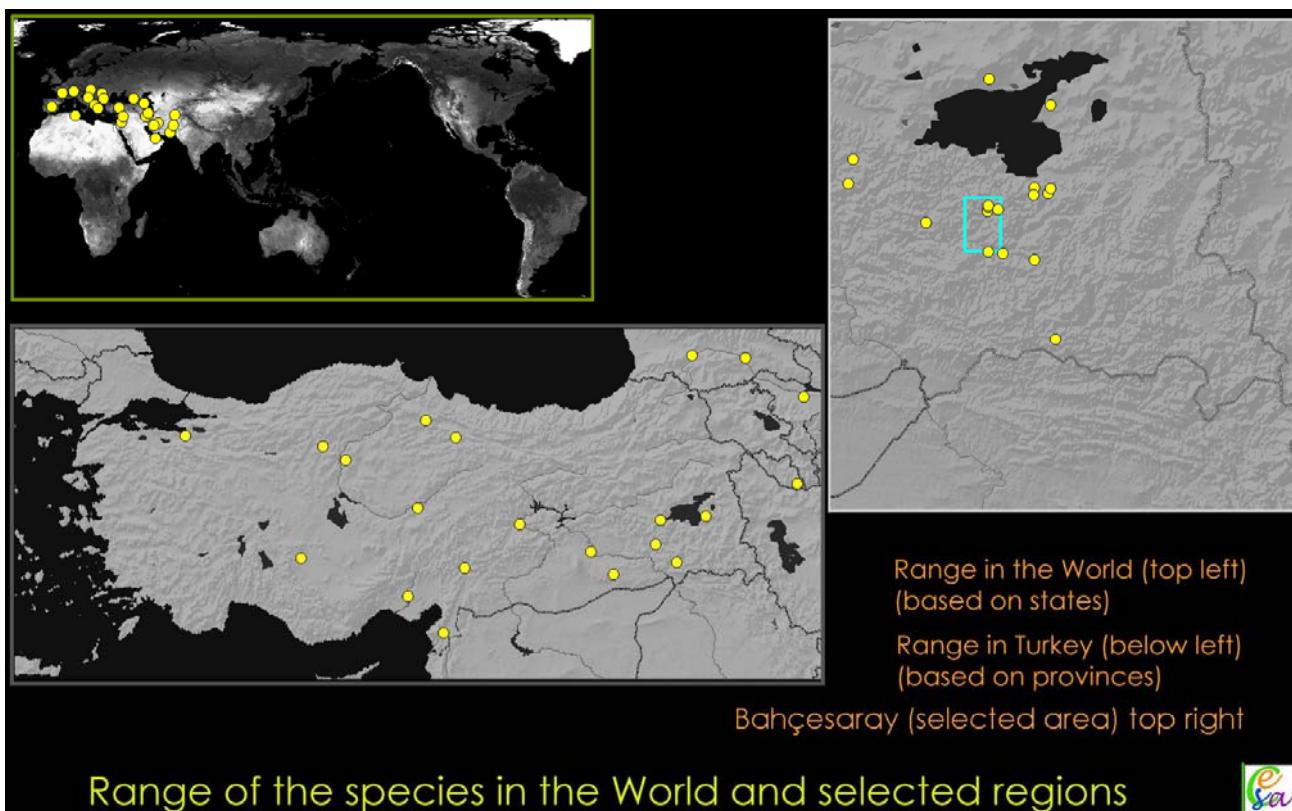
Map 11 (331) - *Asalebria (Exophora) exasperata*Map 12 (332) - *Asalebria (s.str.) geminella*

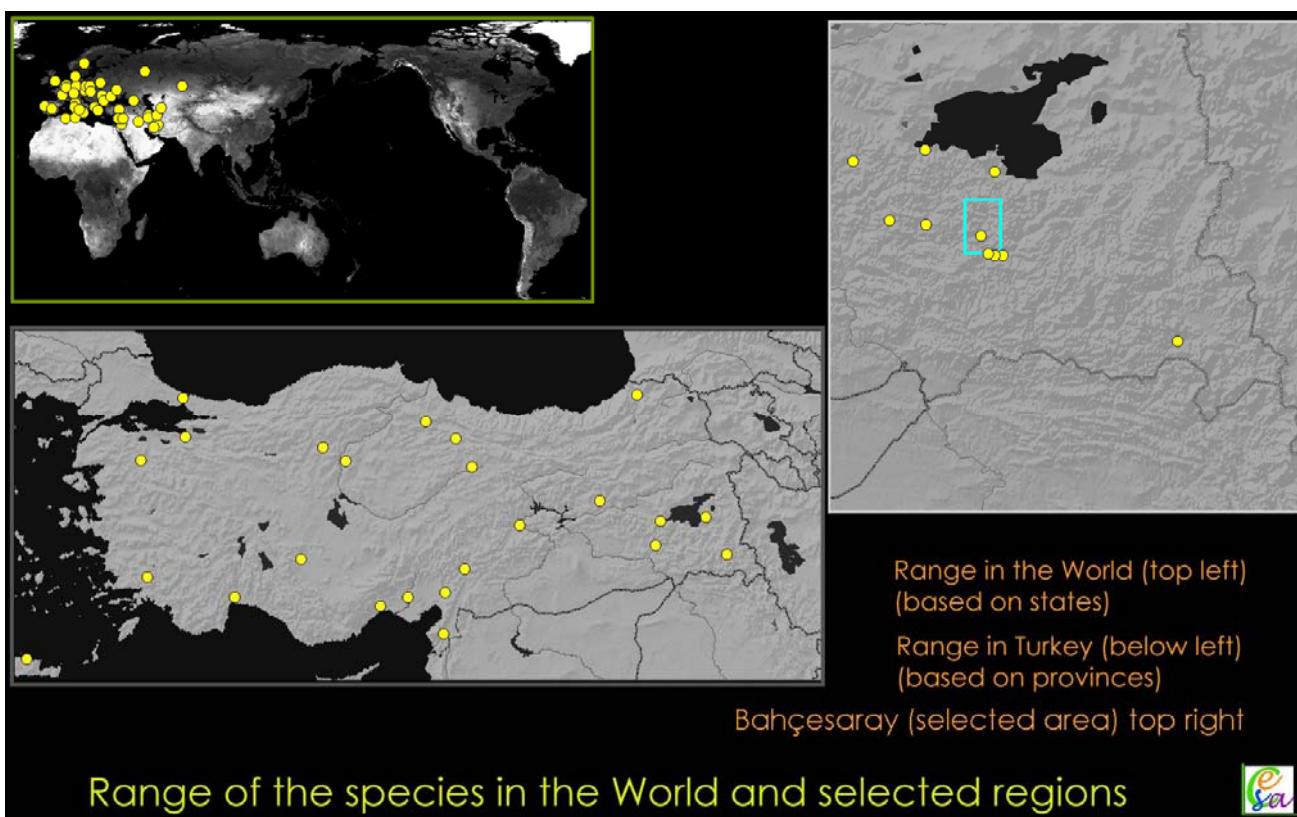
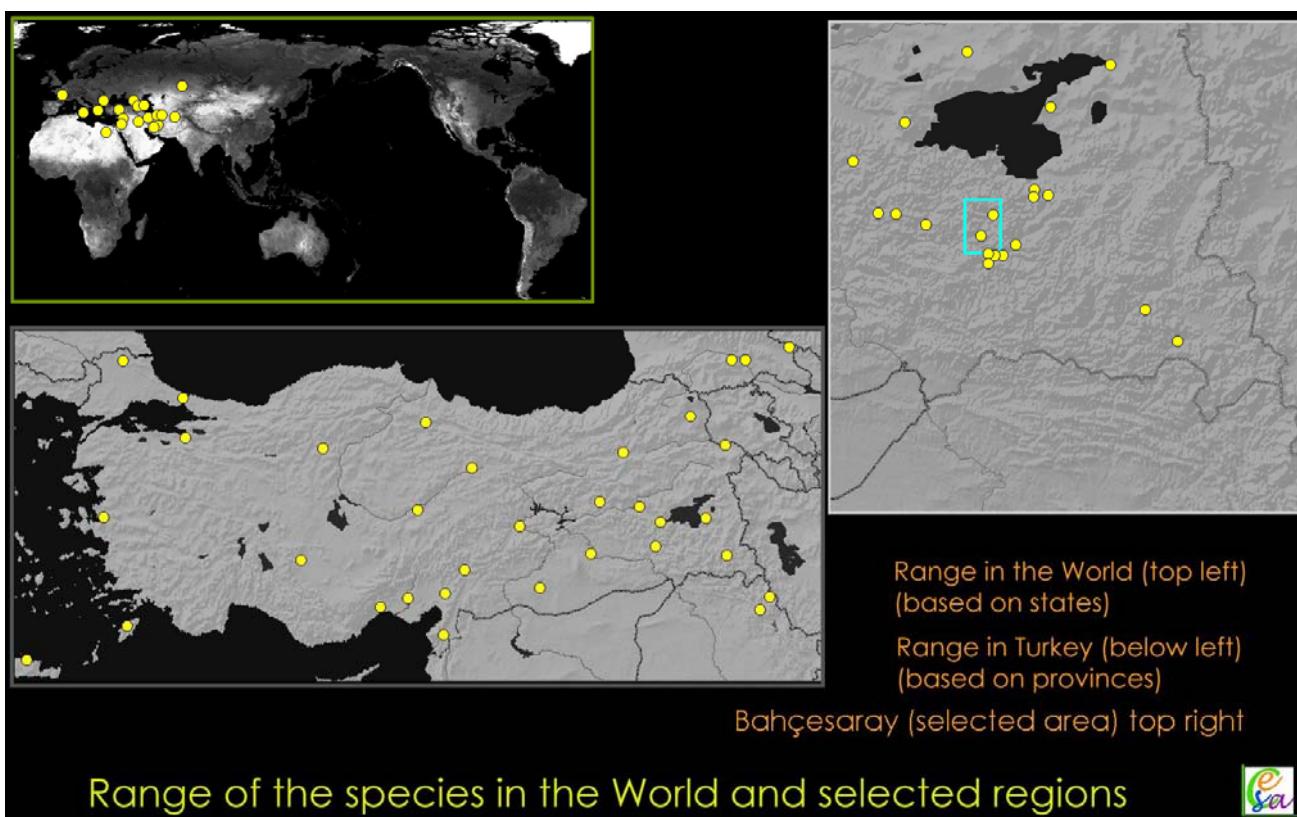
Map 13 (333) - *Bradyrrhoa (Kasikoparania) mesobaphella*Map 14 (335) - *Bradyrrhoa (s.str.) gilveolella*

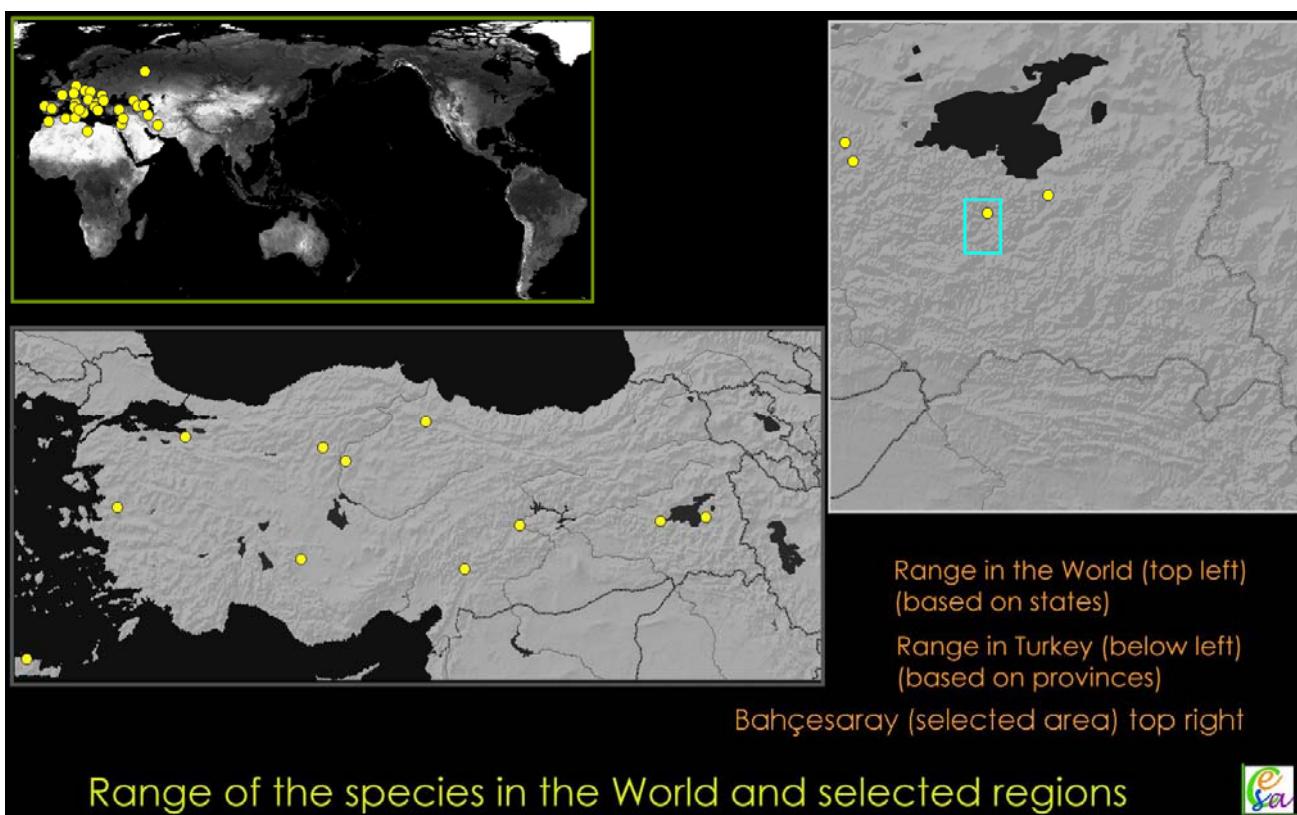
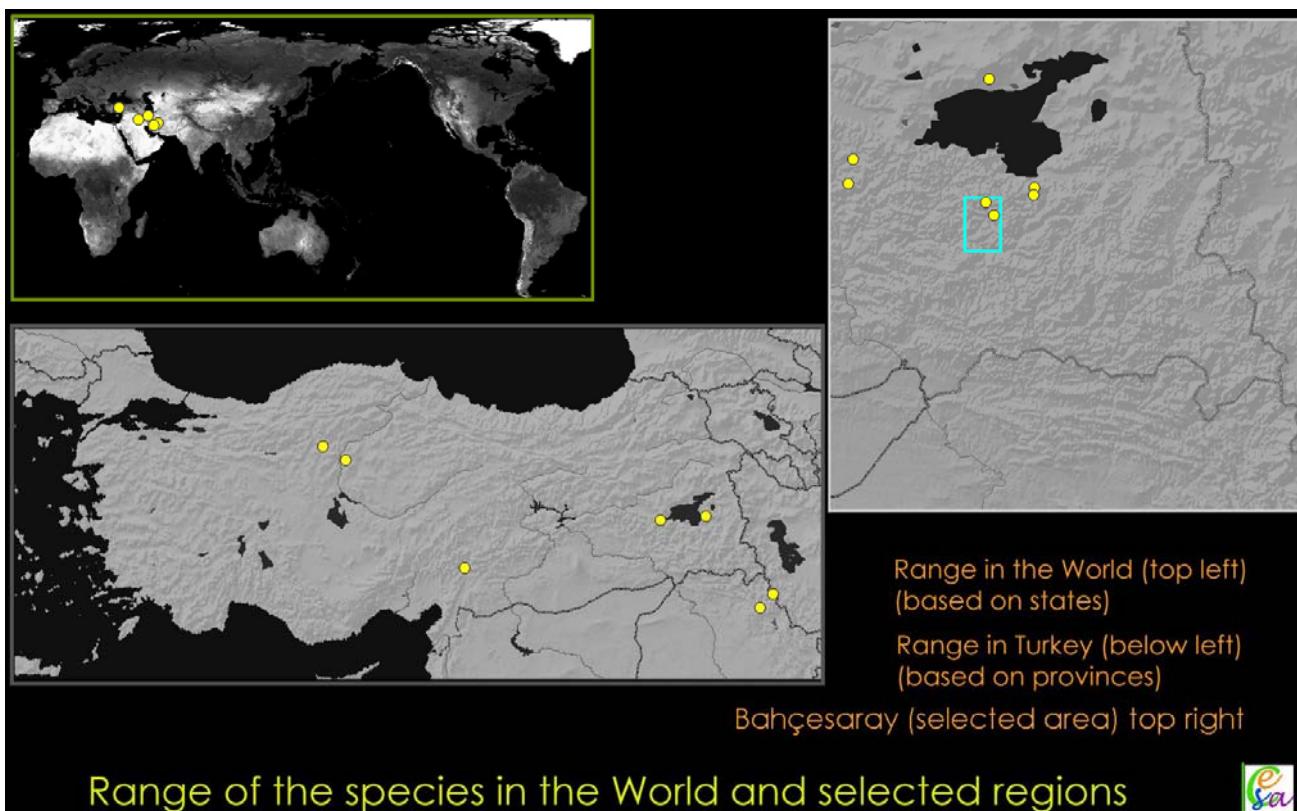
Map 15 (338) - *Catoptria hilarella*Map 16 (339) - *Catoptria pinella*

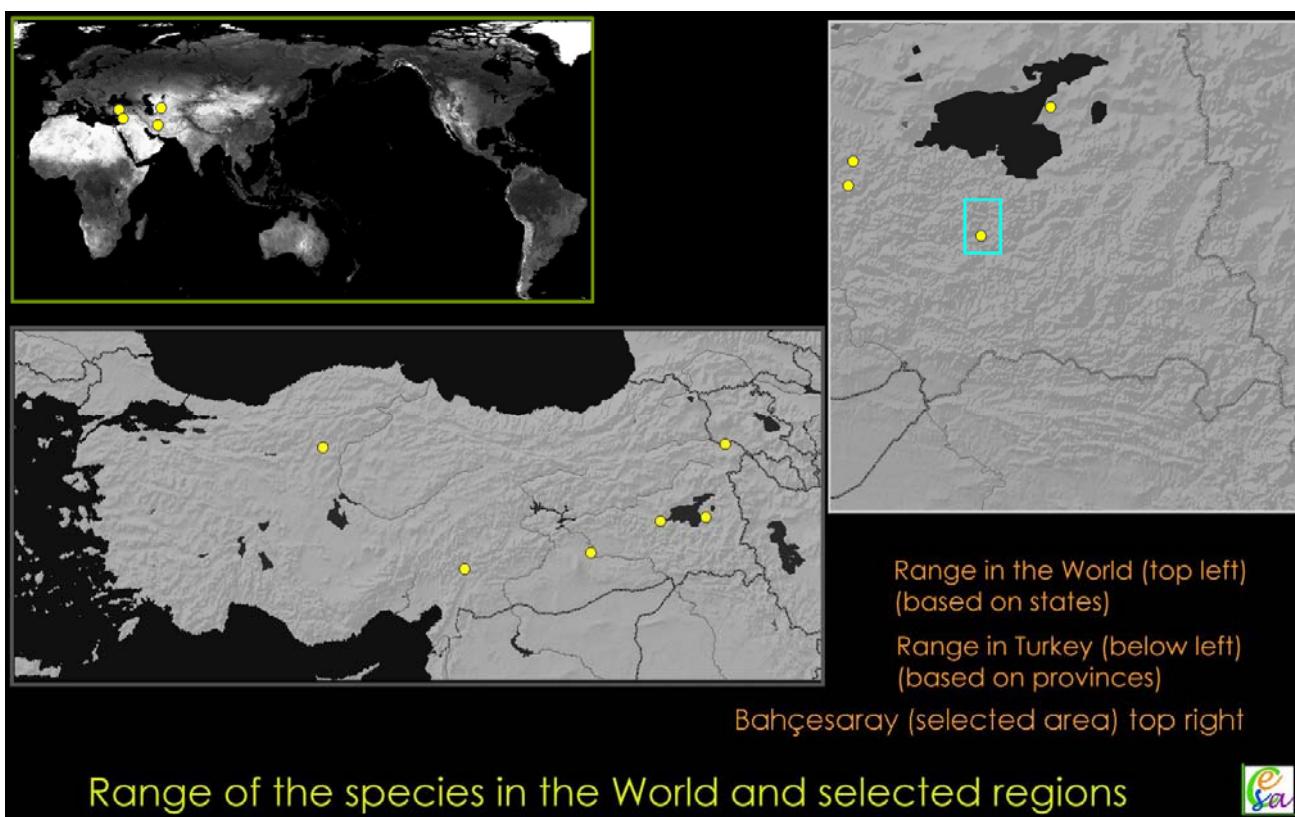
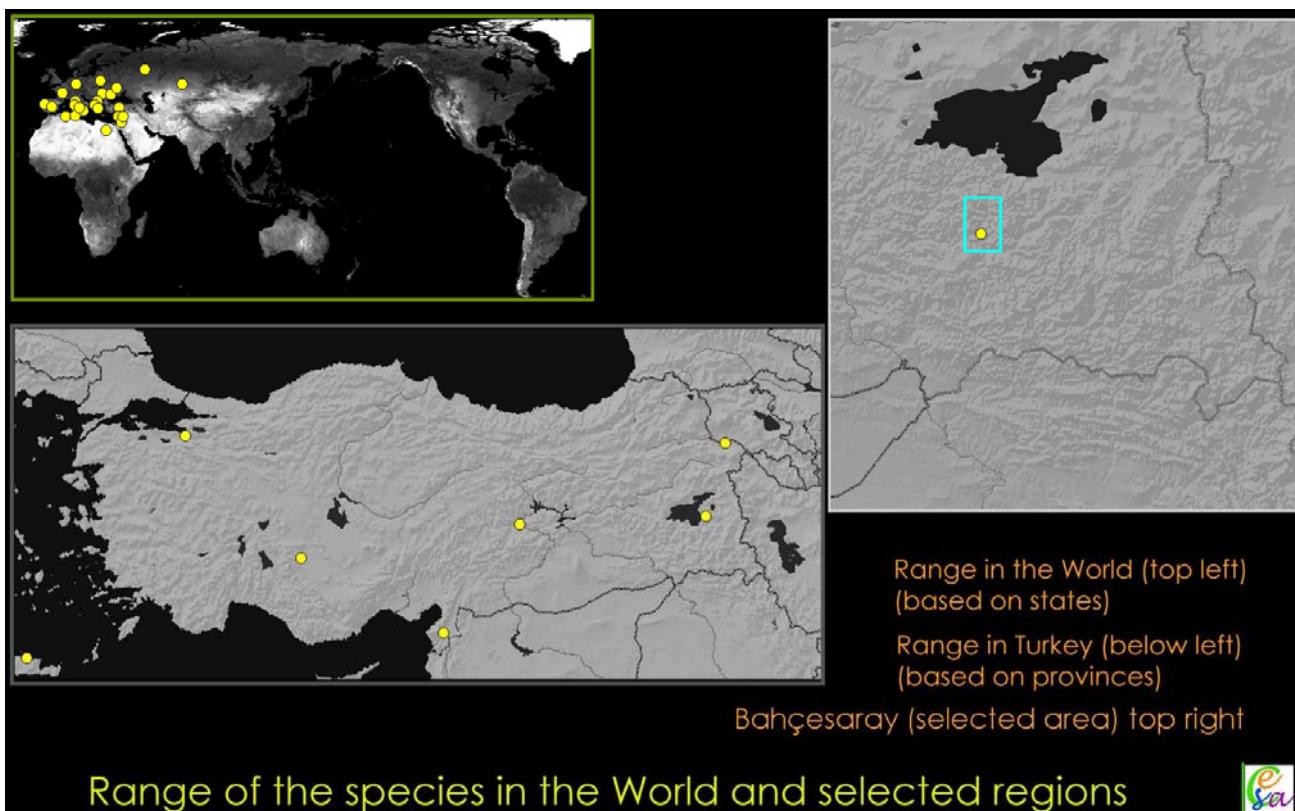
Map 17 (340) - *Chrysocrambus craterellus*Map 18 (341) - *Chrysocrambus linetellus*

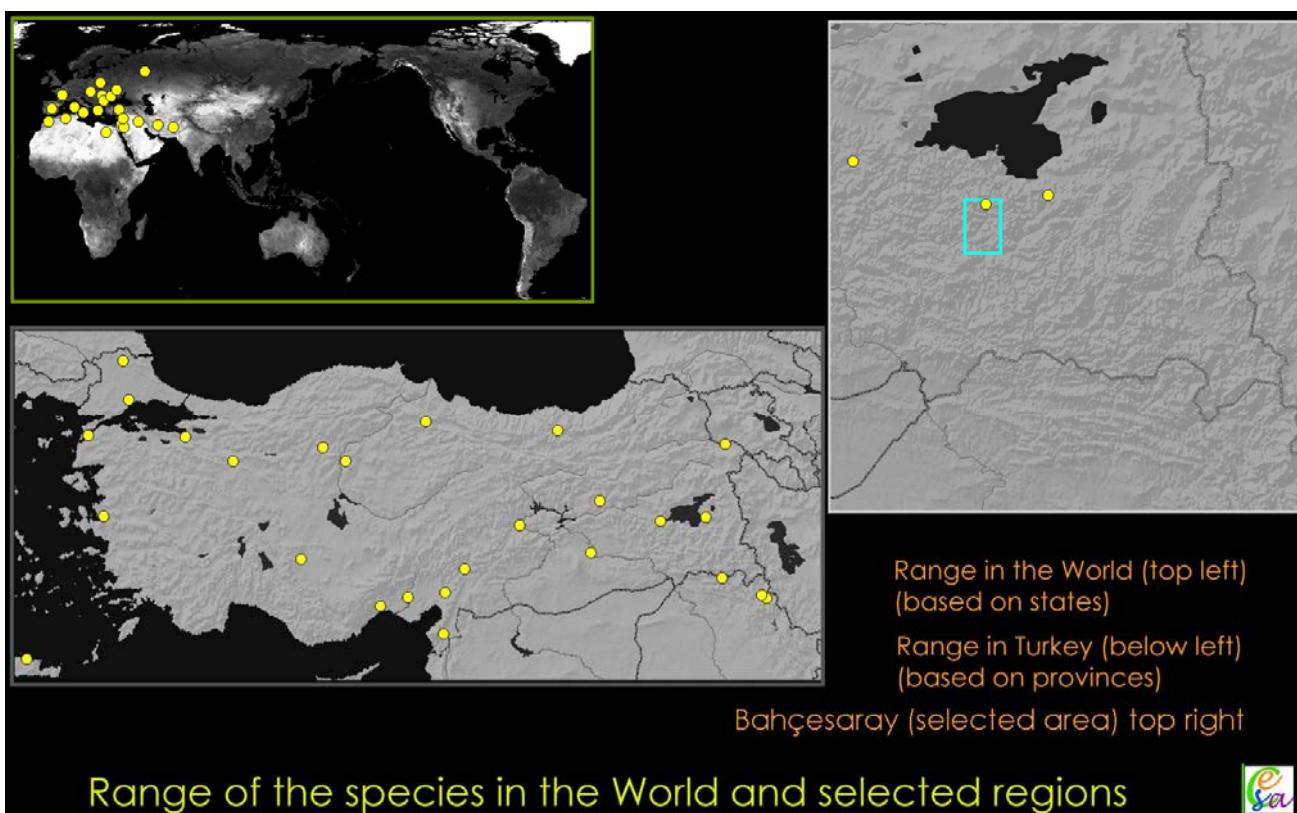
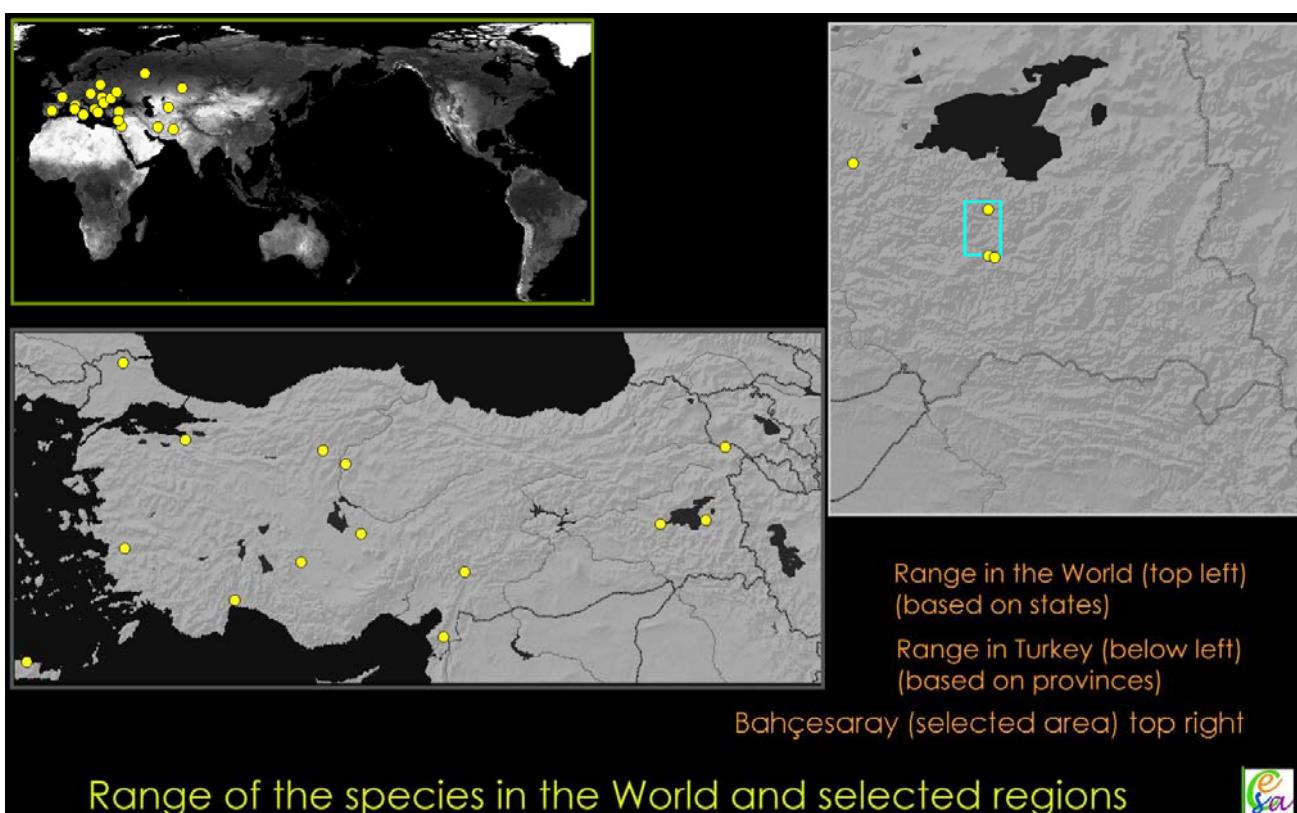
Map 19 (342) - *Cynaeda (s.str.) gigantea*Map 20 (343) - *Cynaeda (Usgentia) vespertalis*

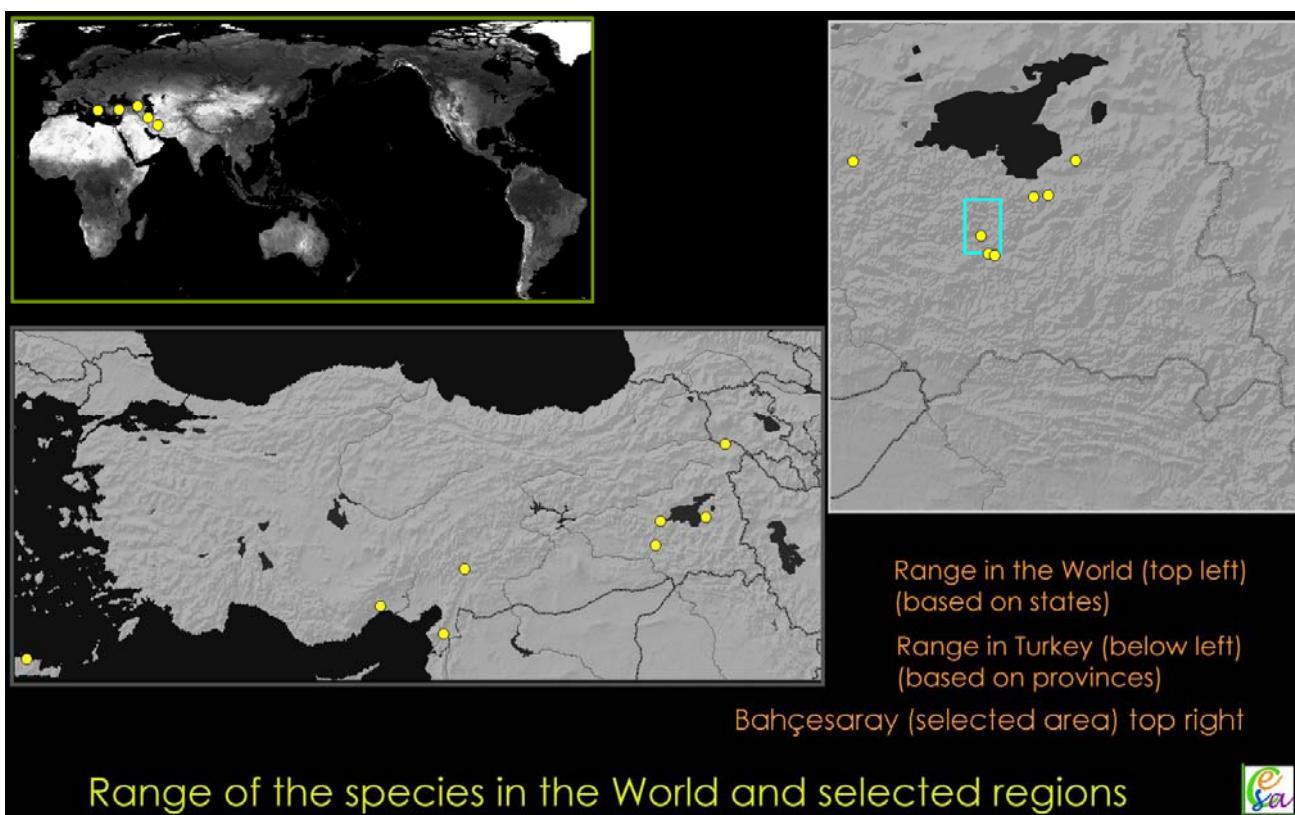
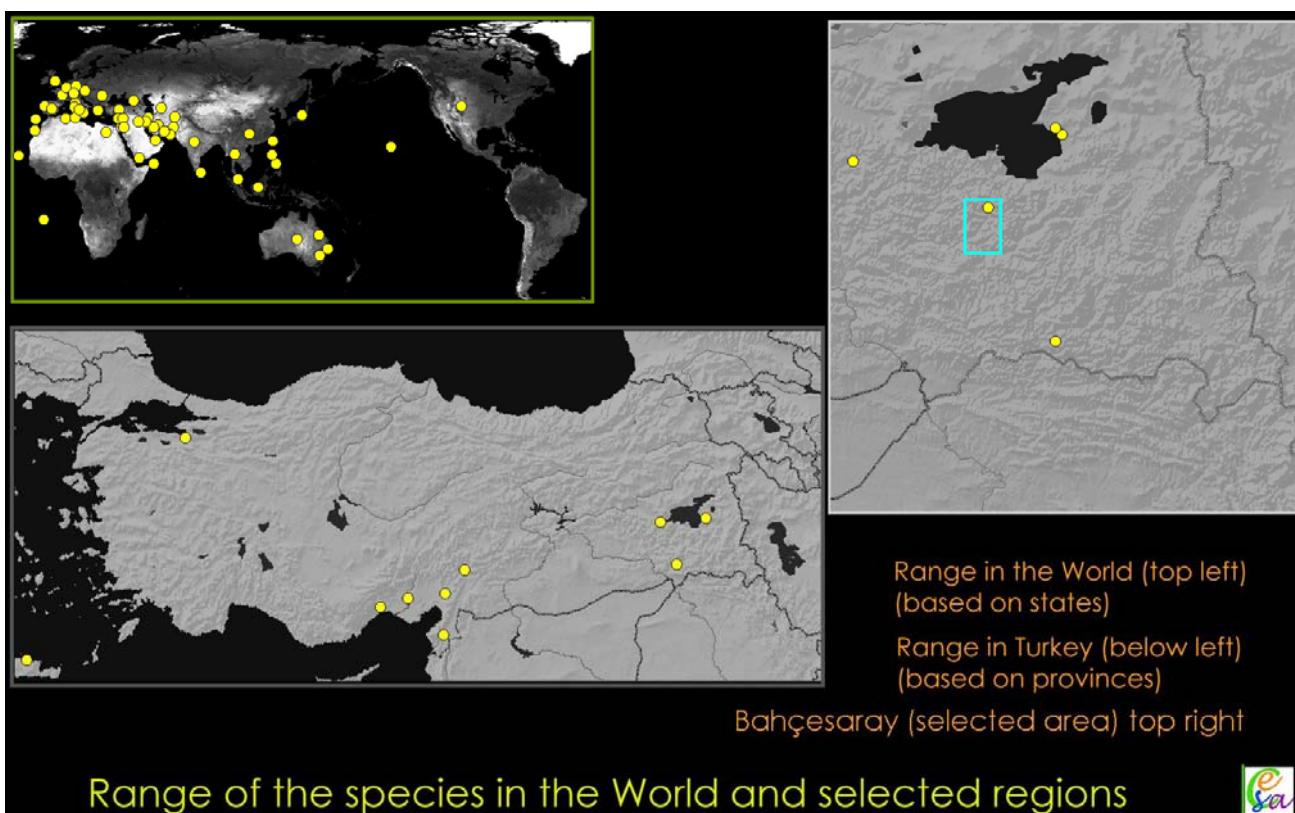
Map 21 (344) - *Dolicharthria bruguieralis*Map 22 (345) - *Ecpyrrhorhoe diffusalis*

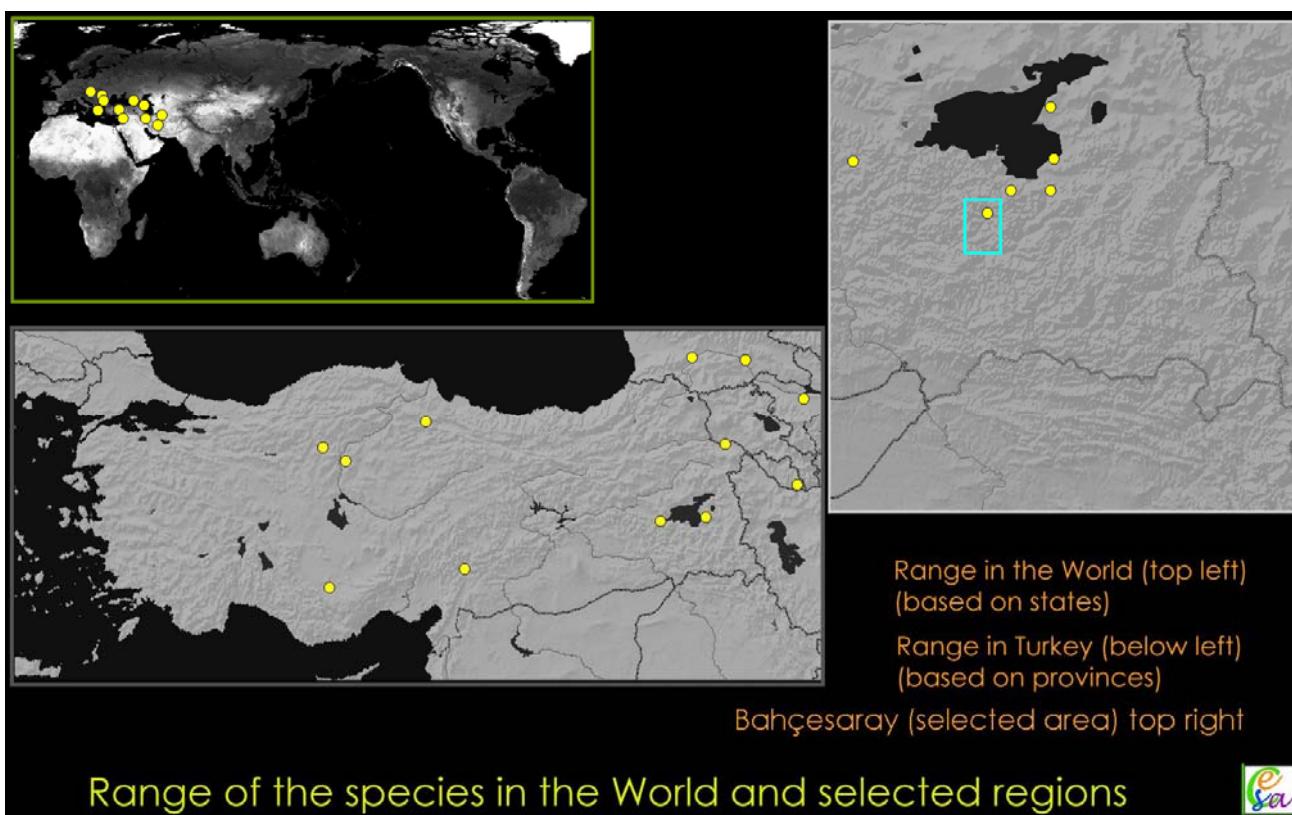
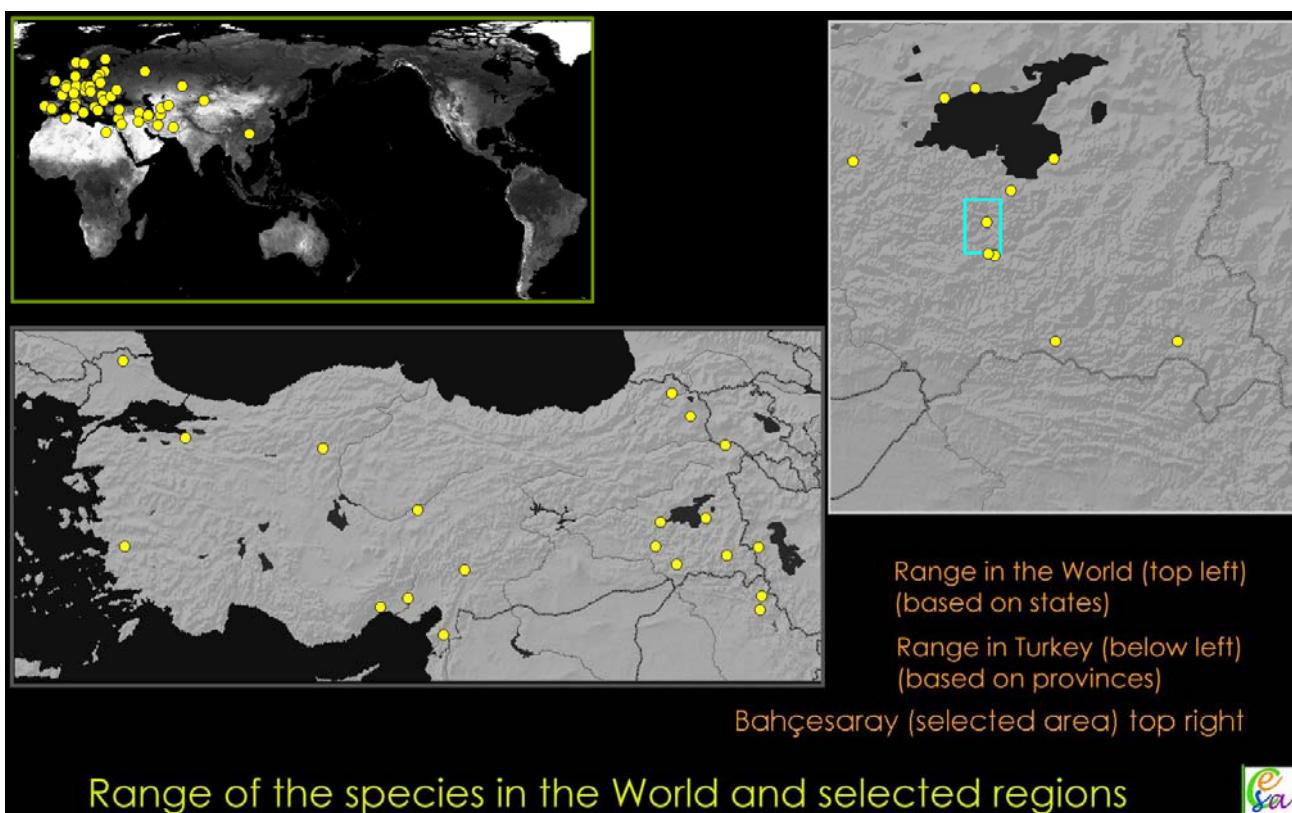
Map 23 (346) - *Endotricha flammealis*Map 24 (347) - *Ephelis cruentalis*

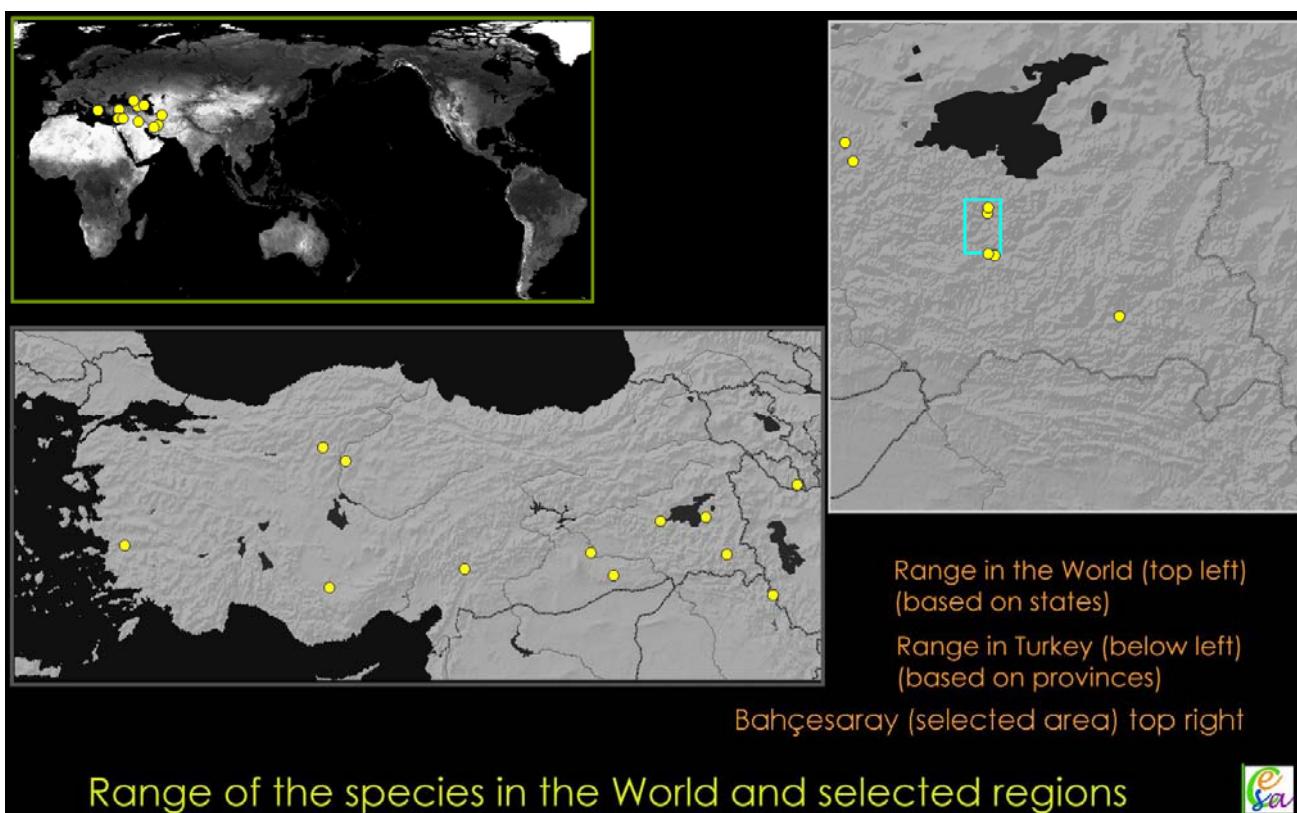
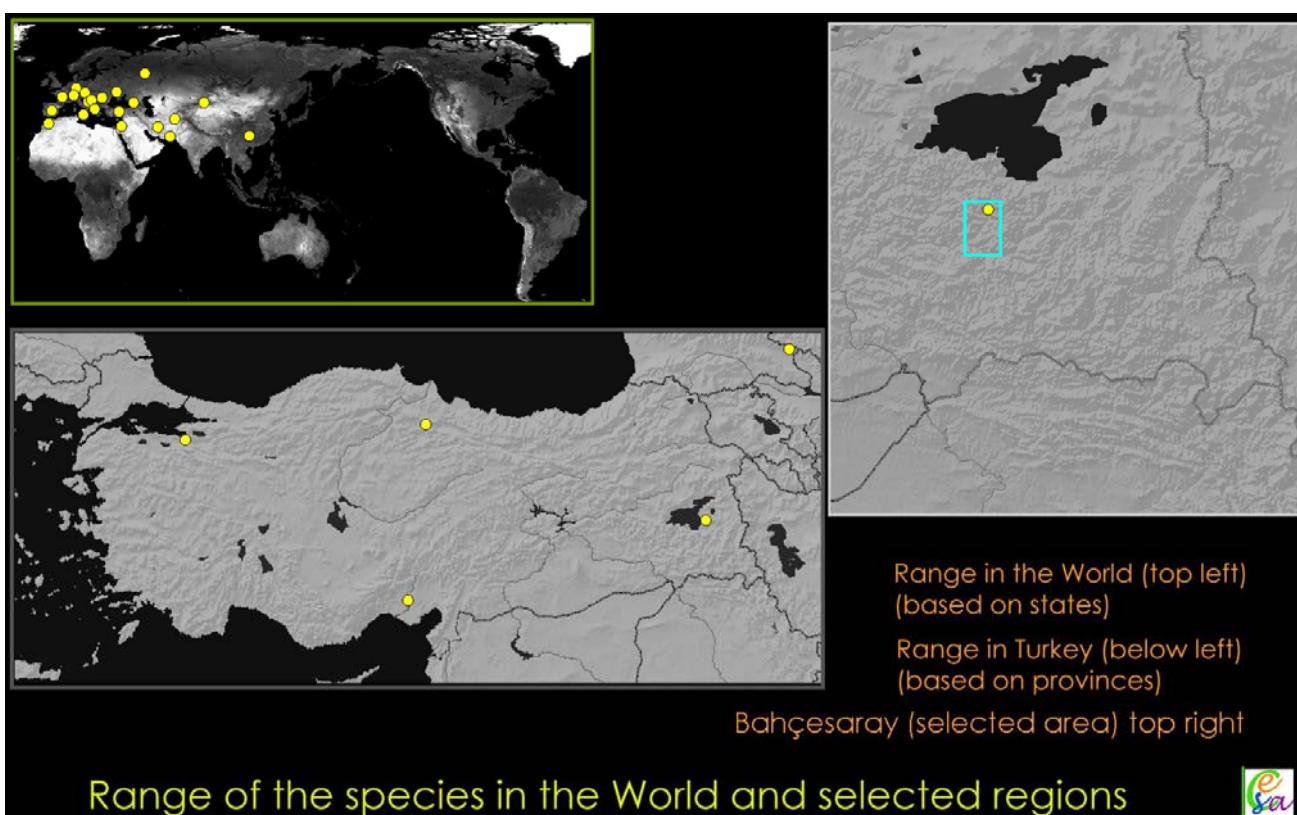
Map 25 (348) - *Ephestia (Anagasta) welseriella*Map 26 (349) - *Epiepischnia pseudolydella*

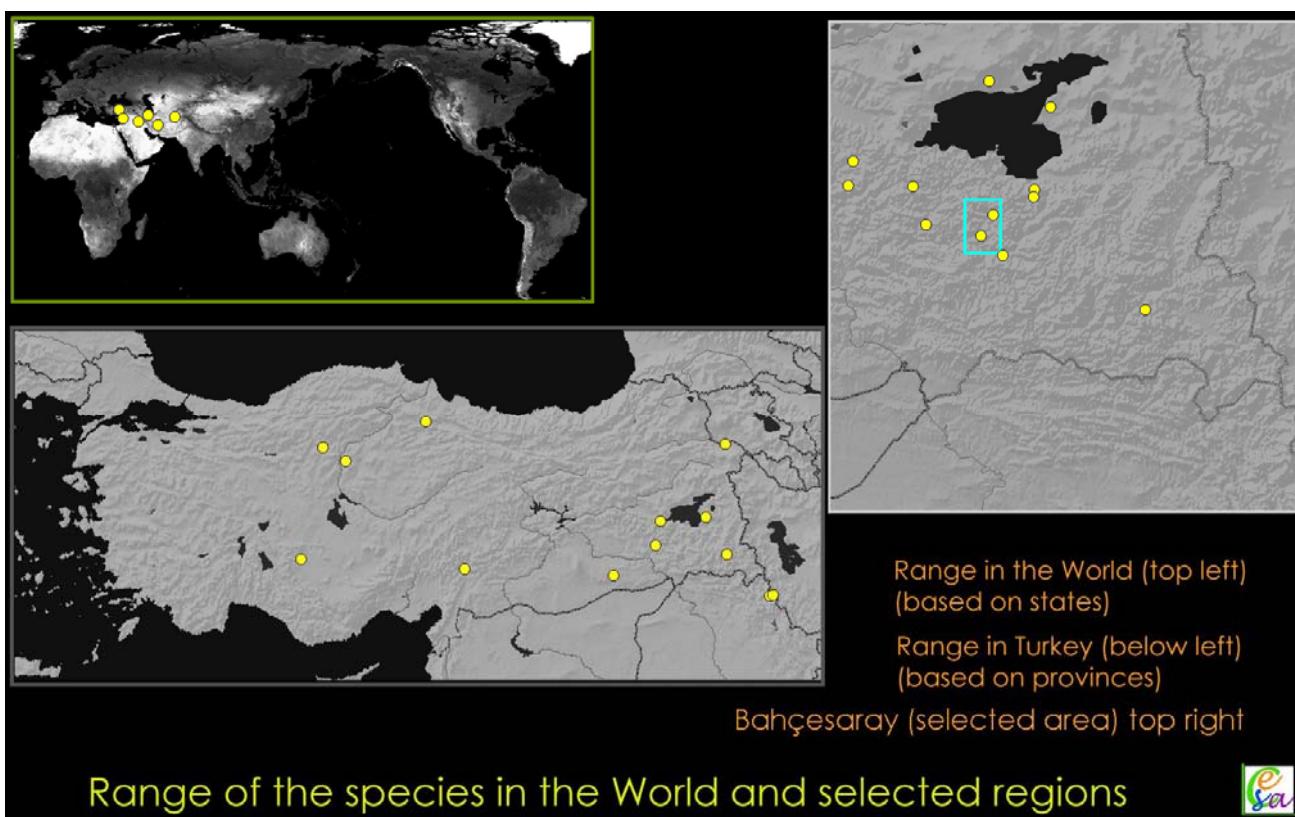
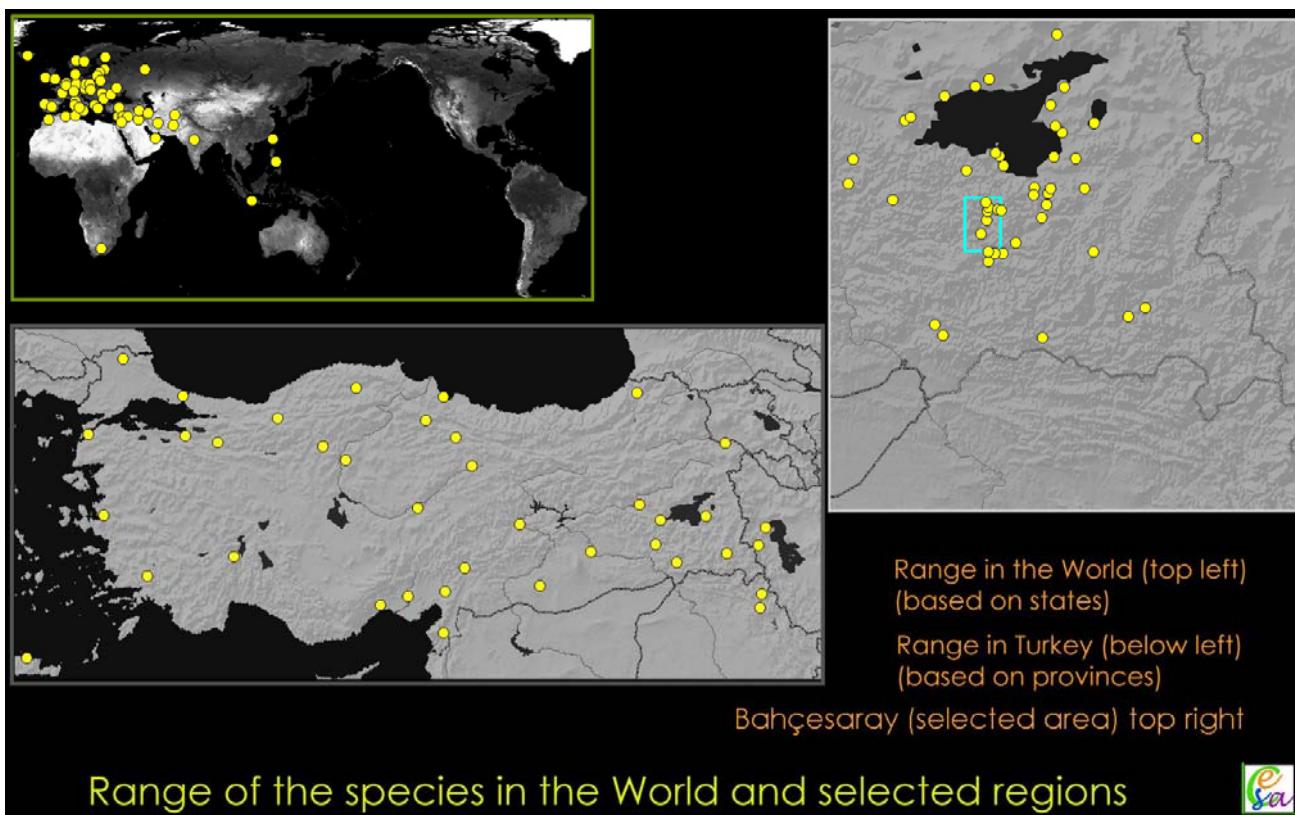
Map 27 (350) - *Epischnia christophori*Map 28 (351) - *Epischnia illotella*

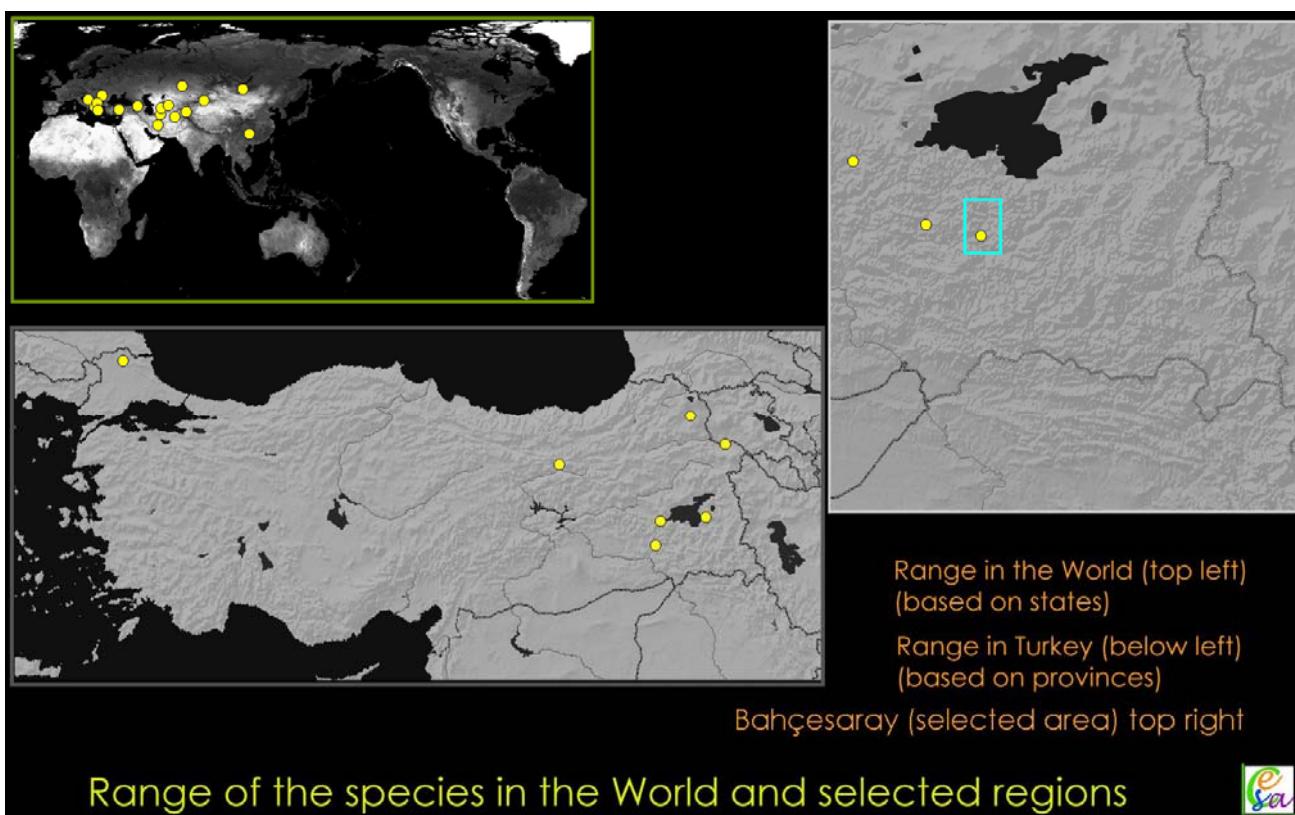
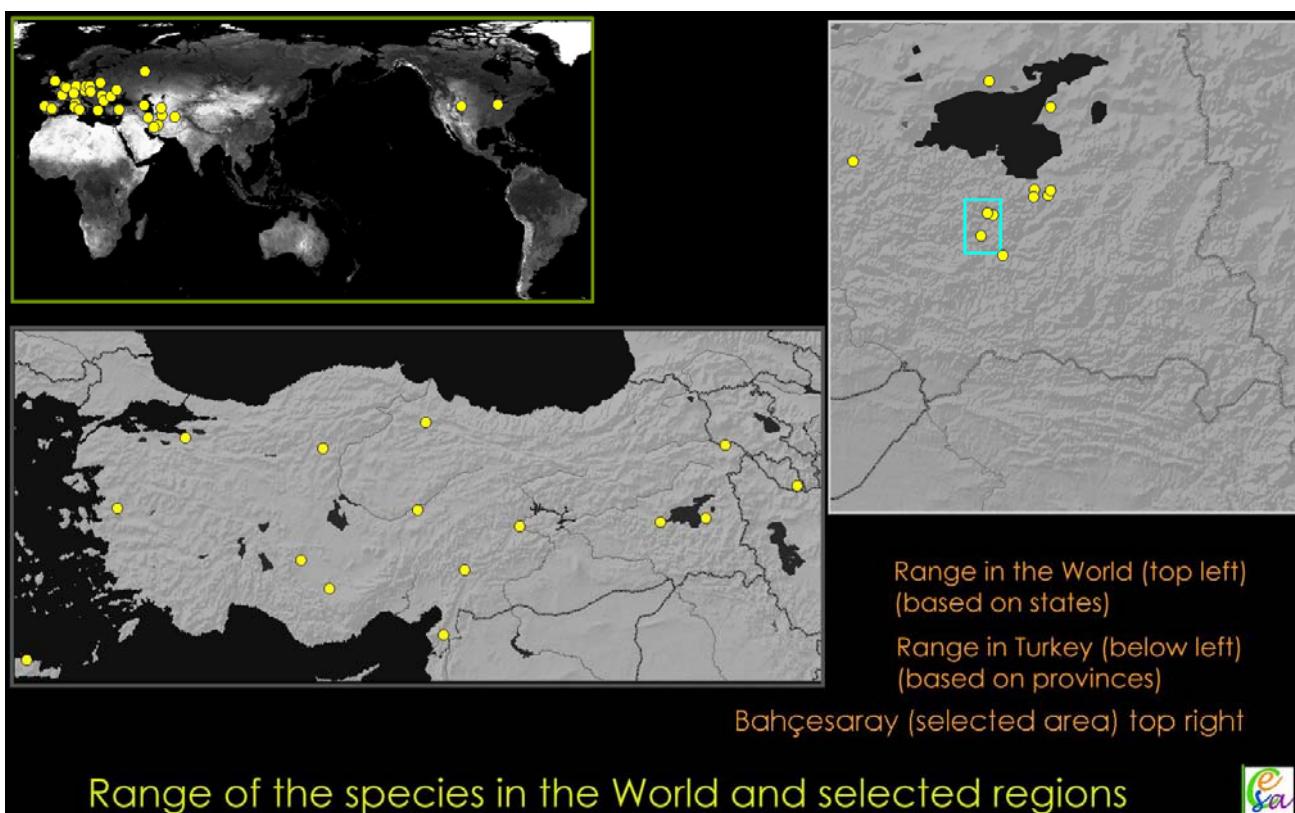
Map 29 (354) - *Euchromius bellus*Map 30 (355) - *Euchromius superbellus*

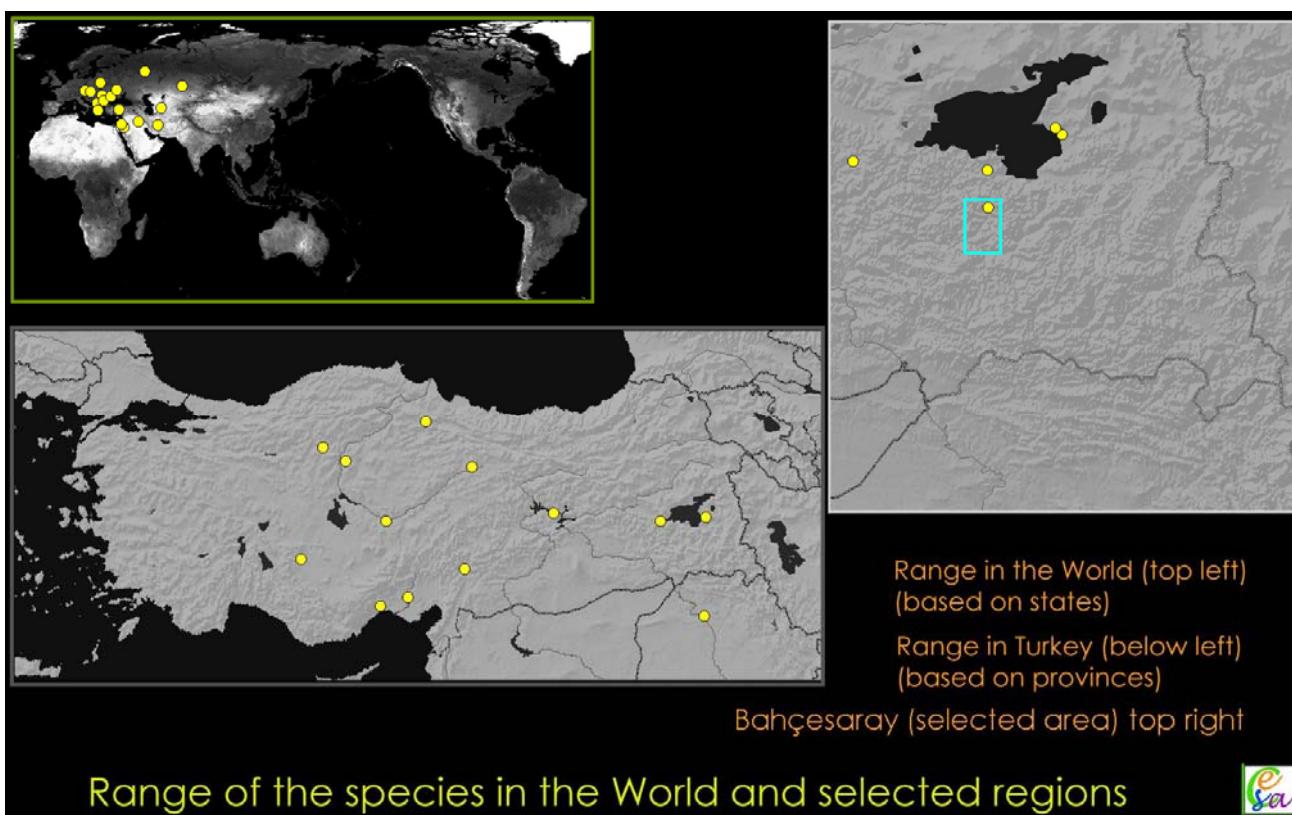
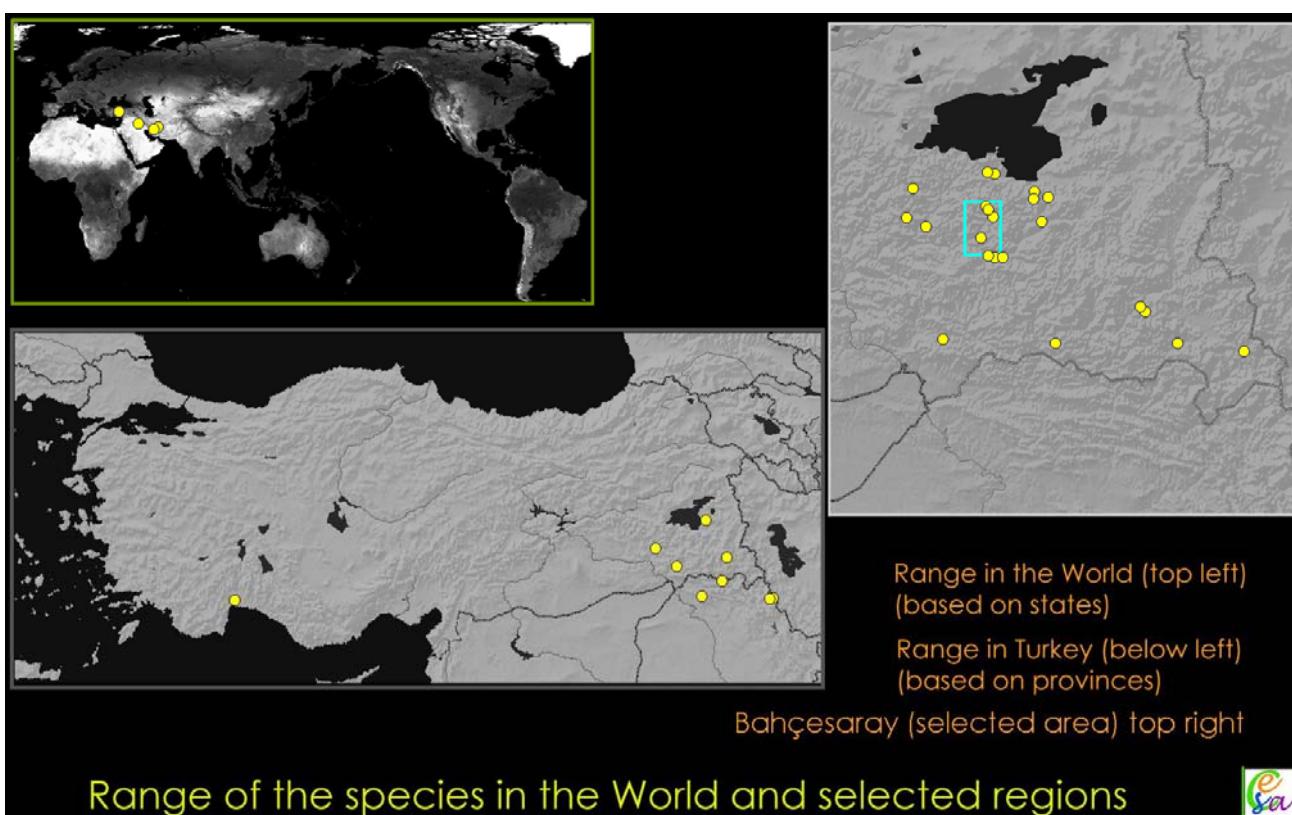
Map 31 (361) - *Glaucocharis euchromiella*Map 32 (362) - *Hellula undalis*

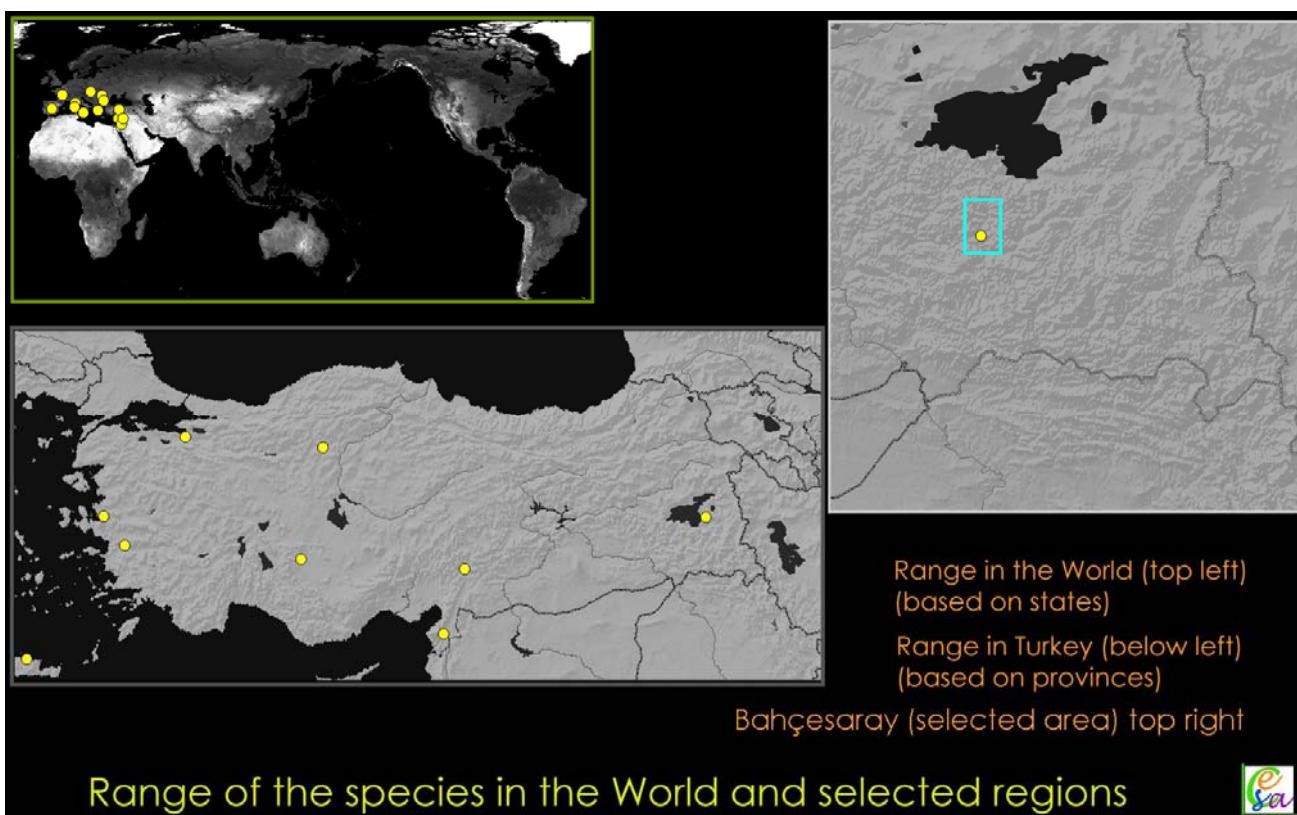
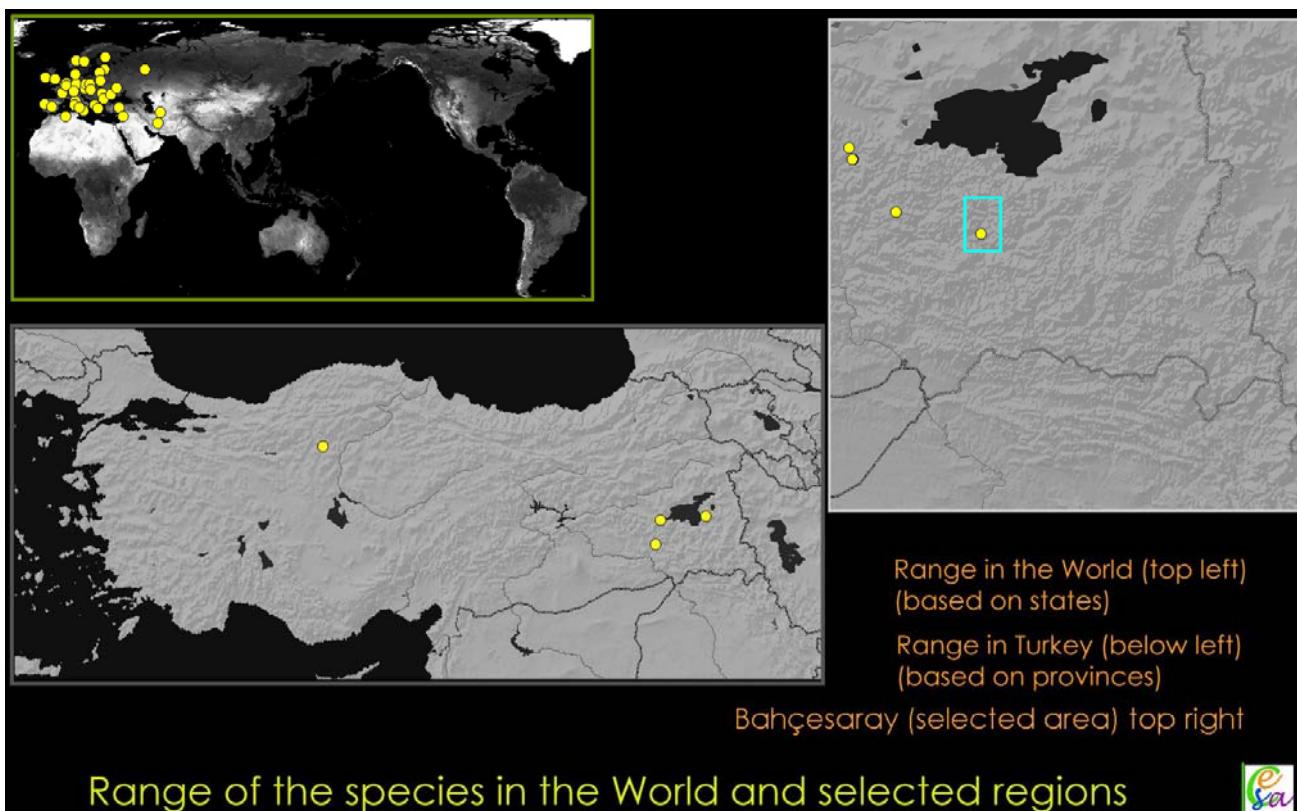
Map 33 (364) - *Hyperlais dulcinalis*Map 34 (367) - *Hypsopygia costalis*

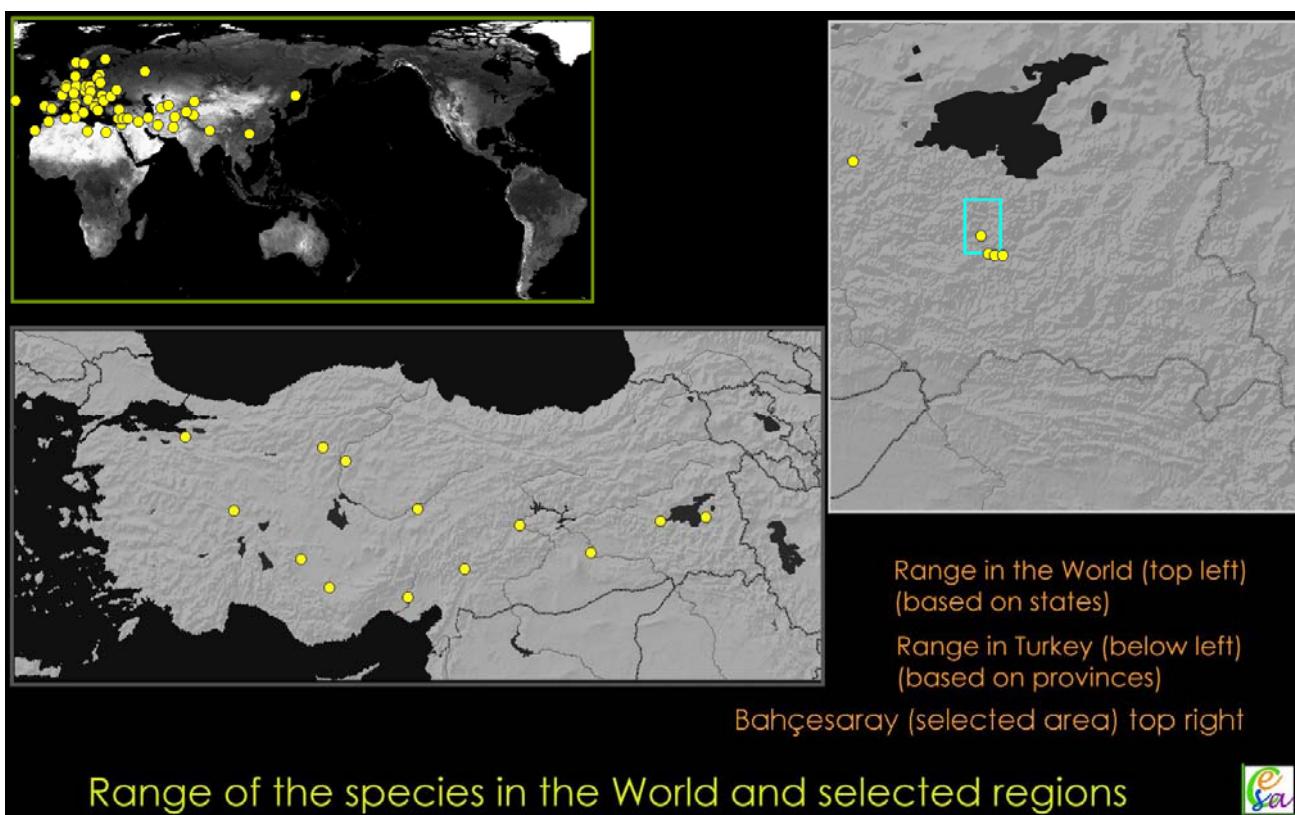
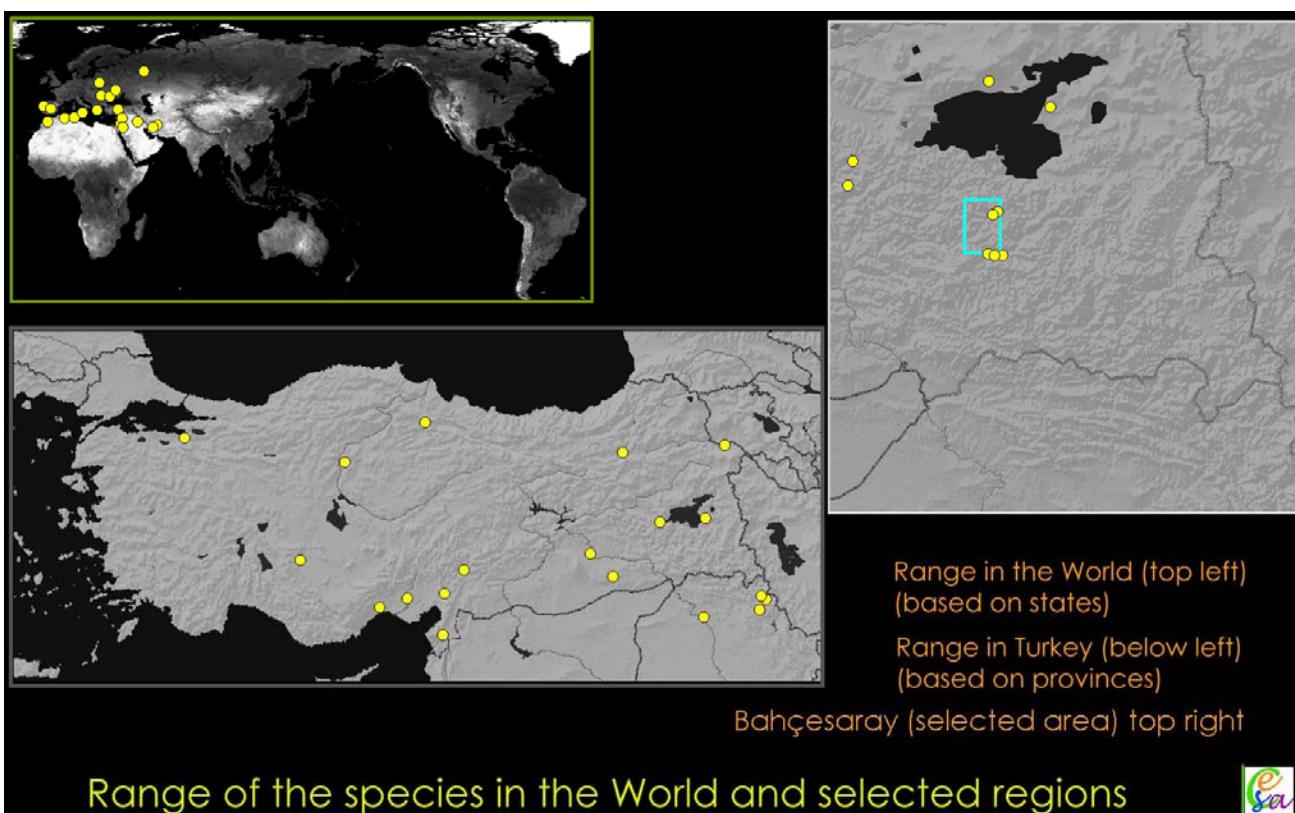
Map 35 (369) - *Keradere lepidella*Map 36 (377) - *Merulempista cingillella*

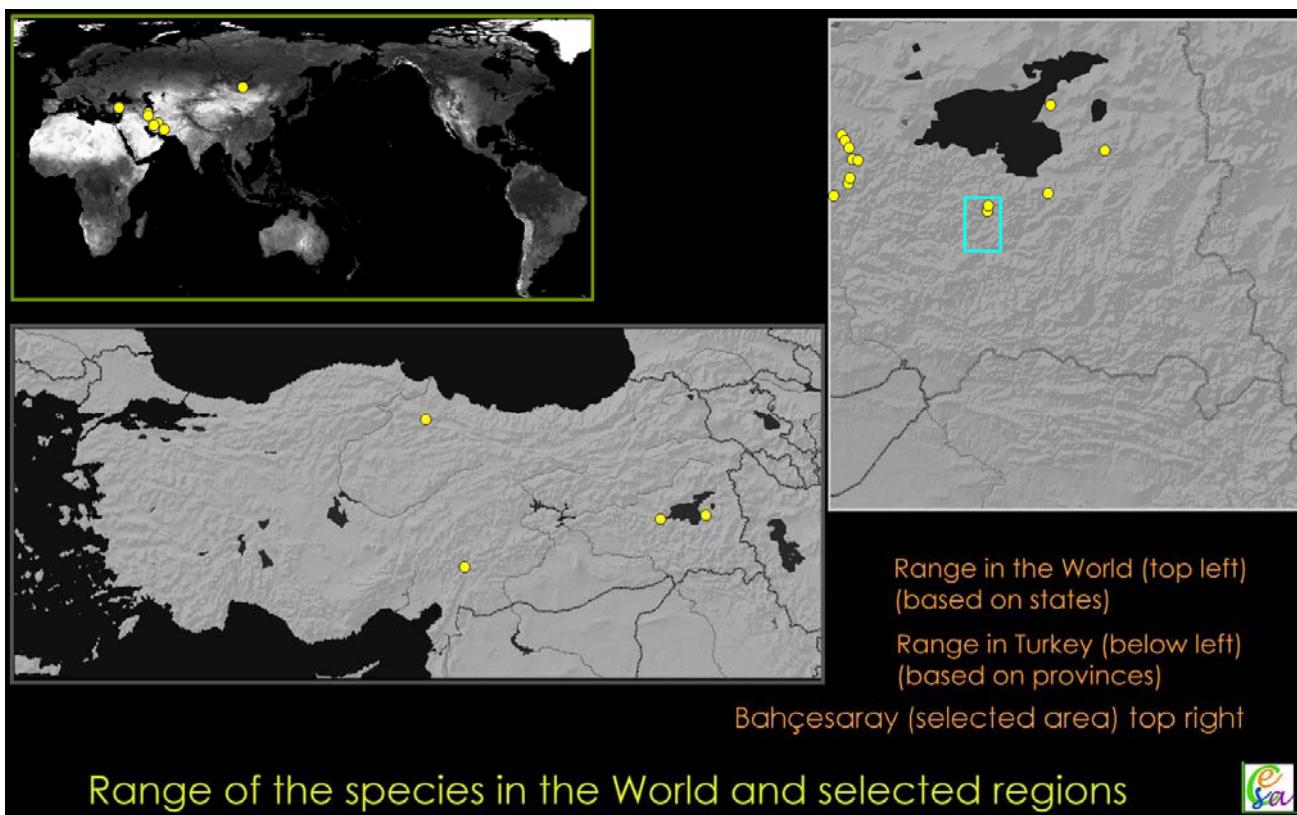
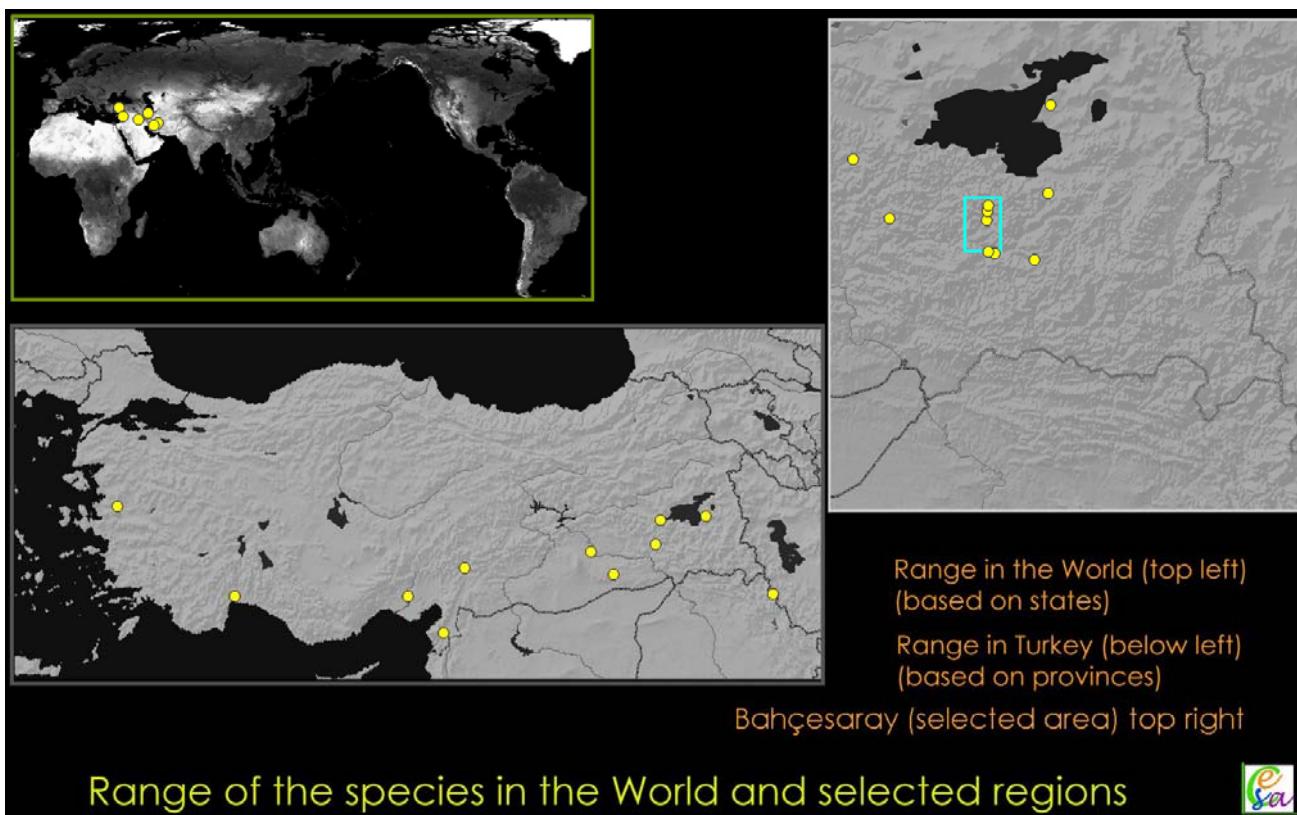
Map 37 (383) - *Myrlaea albistrigata*Map 38 (384) - *Nomophila noctuella*

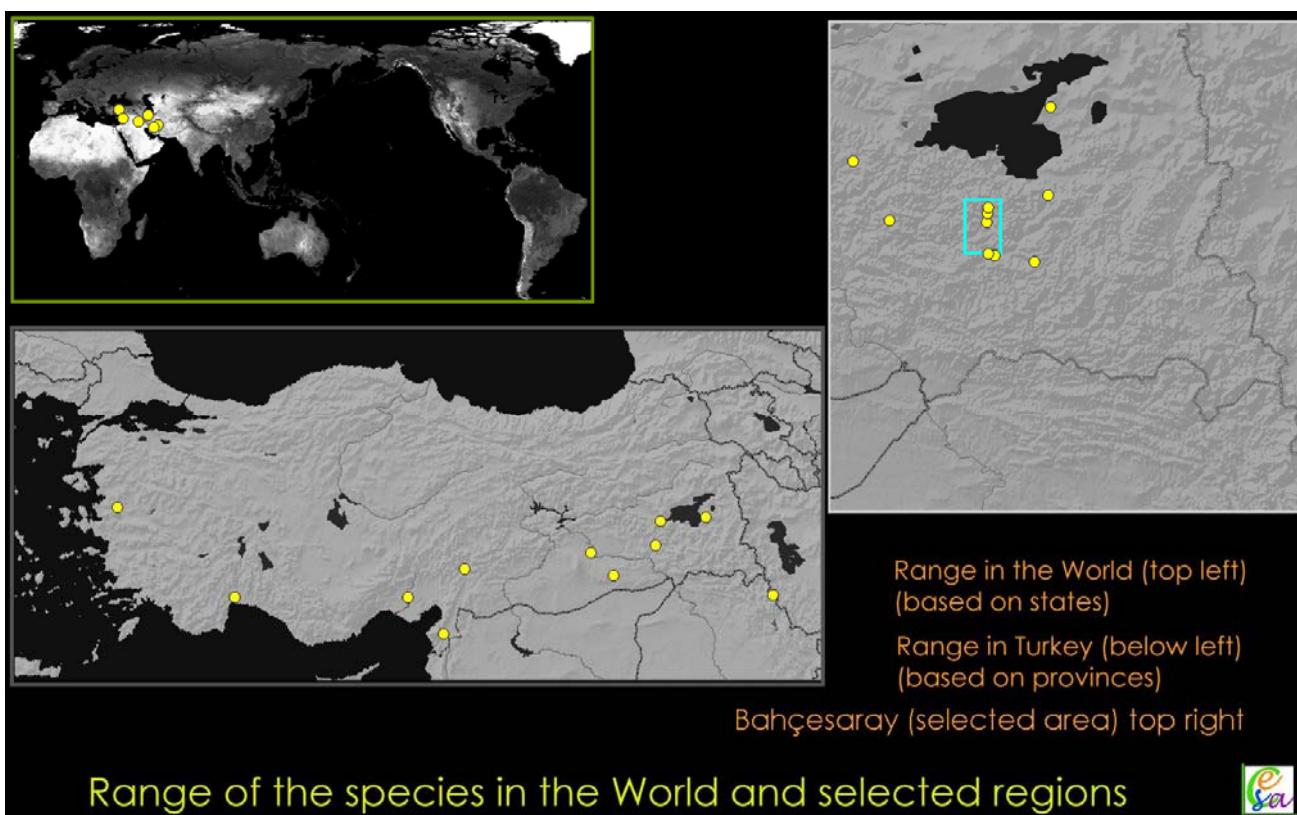
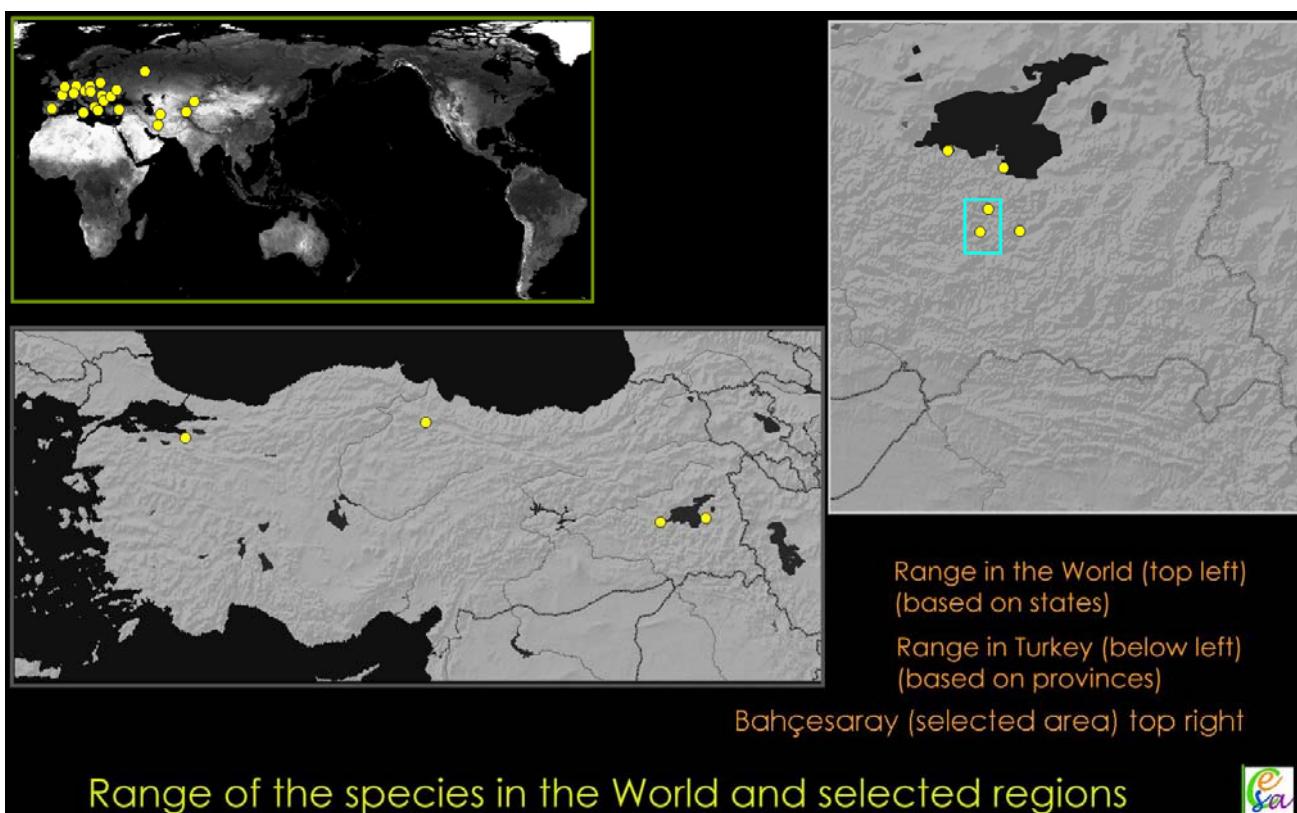
Map 39 (386) - *Oncocera amoenella*Map 40 (388) - *Paracorsia repandalis*

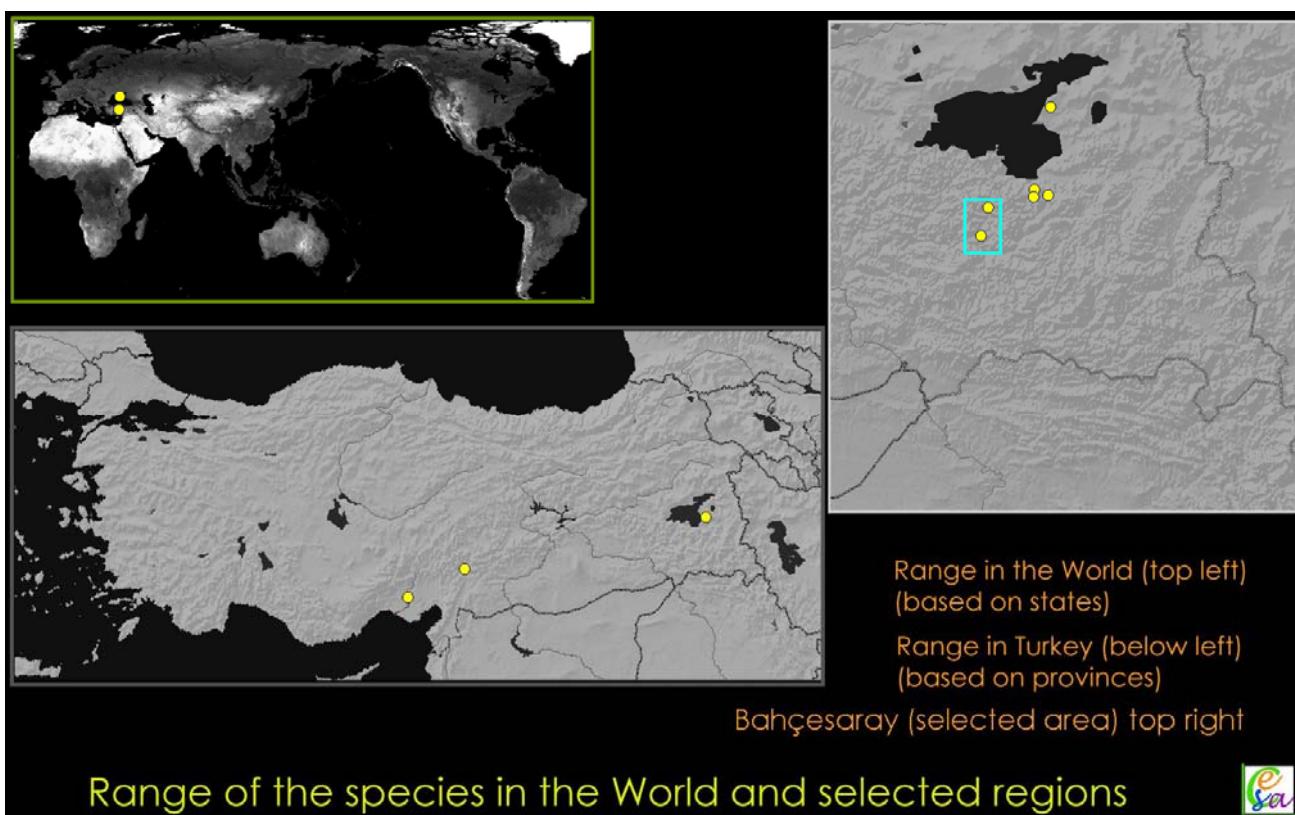
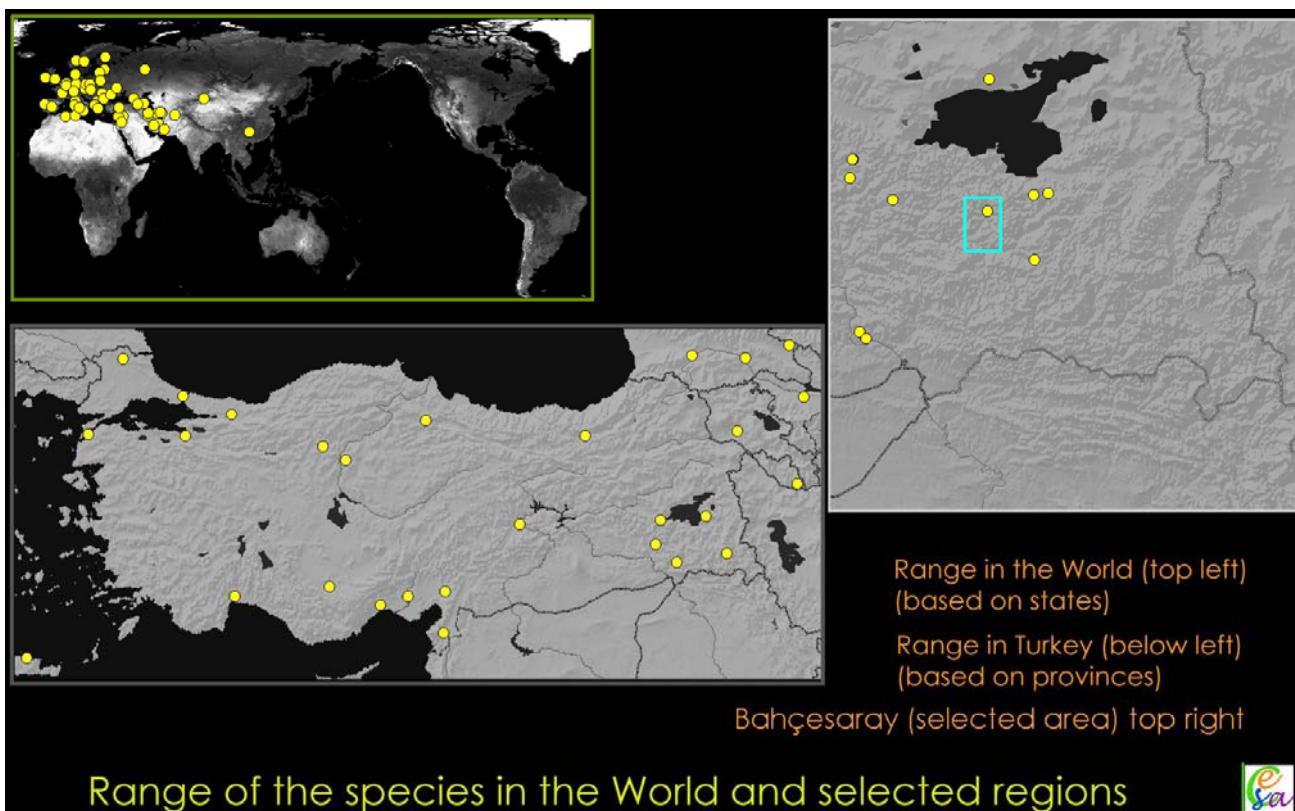
Map 41 (389) - *Pediasia matricella*Map 42 (394) - *Phlyctaenomorpha sinuosalis*

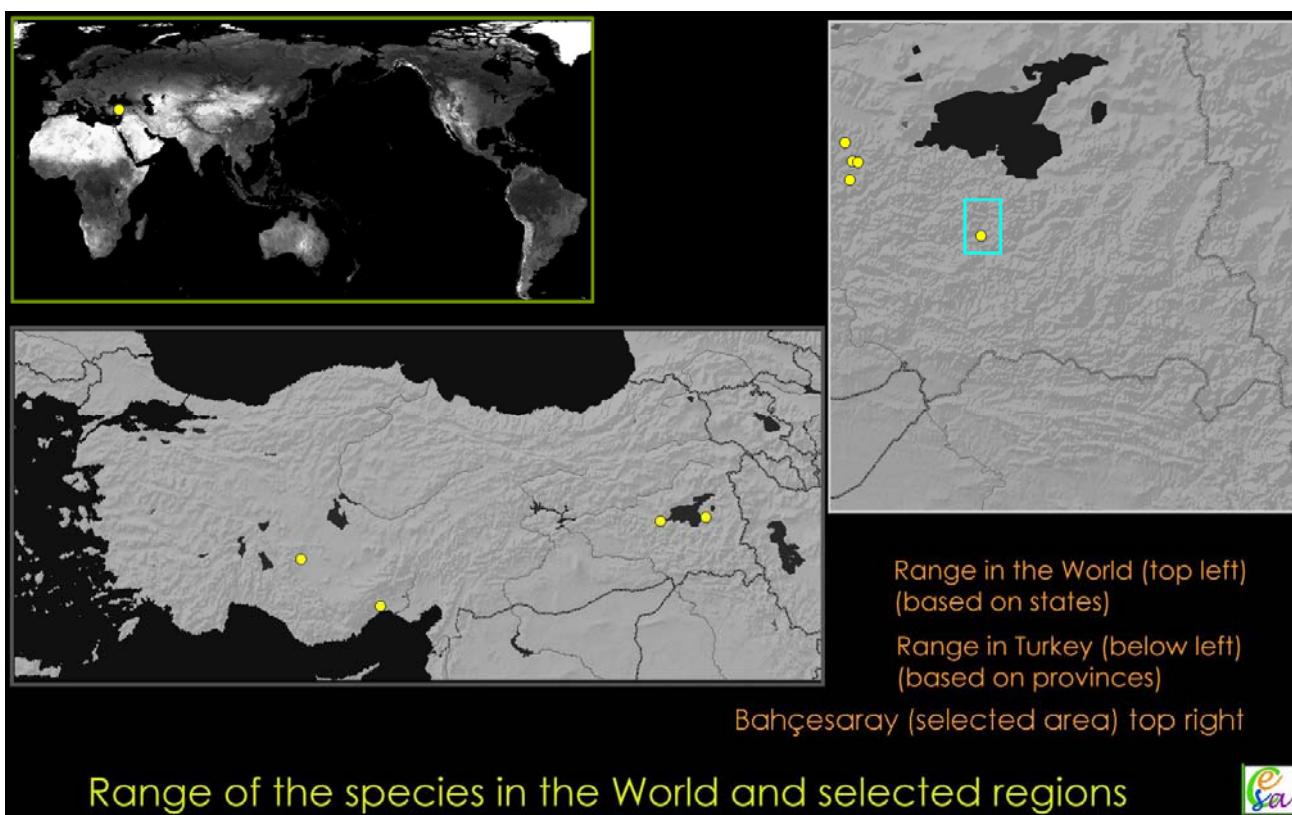
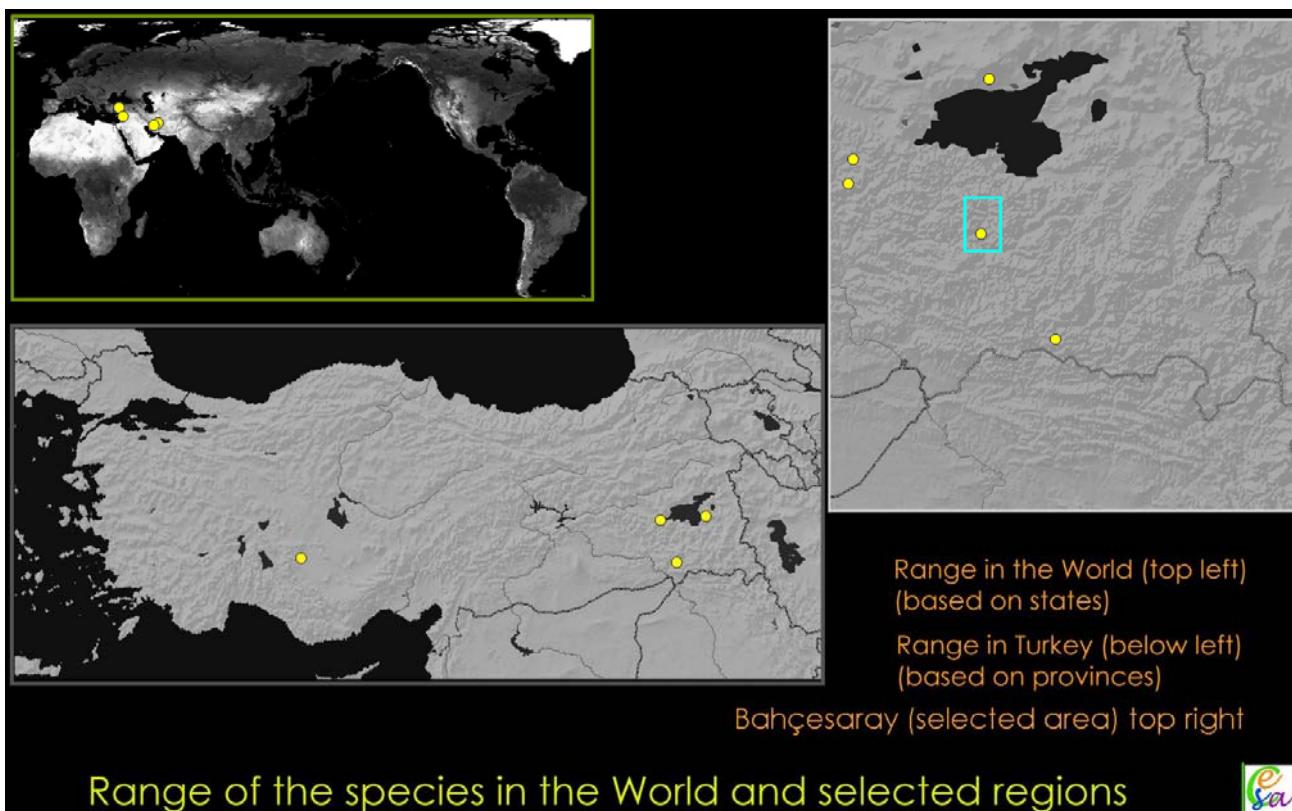
Map 43 (397) - *Phycita poteriella*Map 44 (398) - *Phycita spissicella*

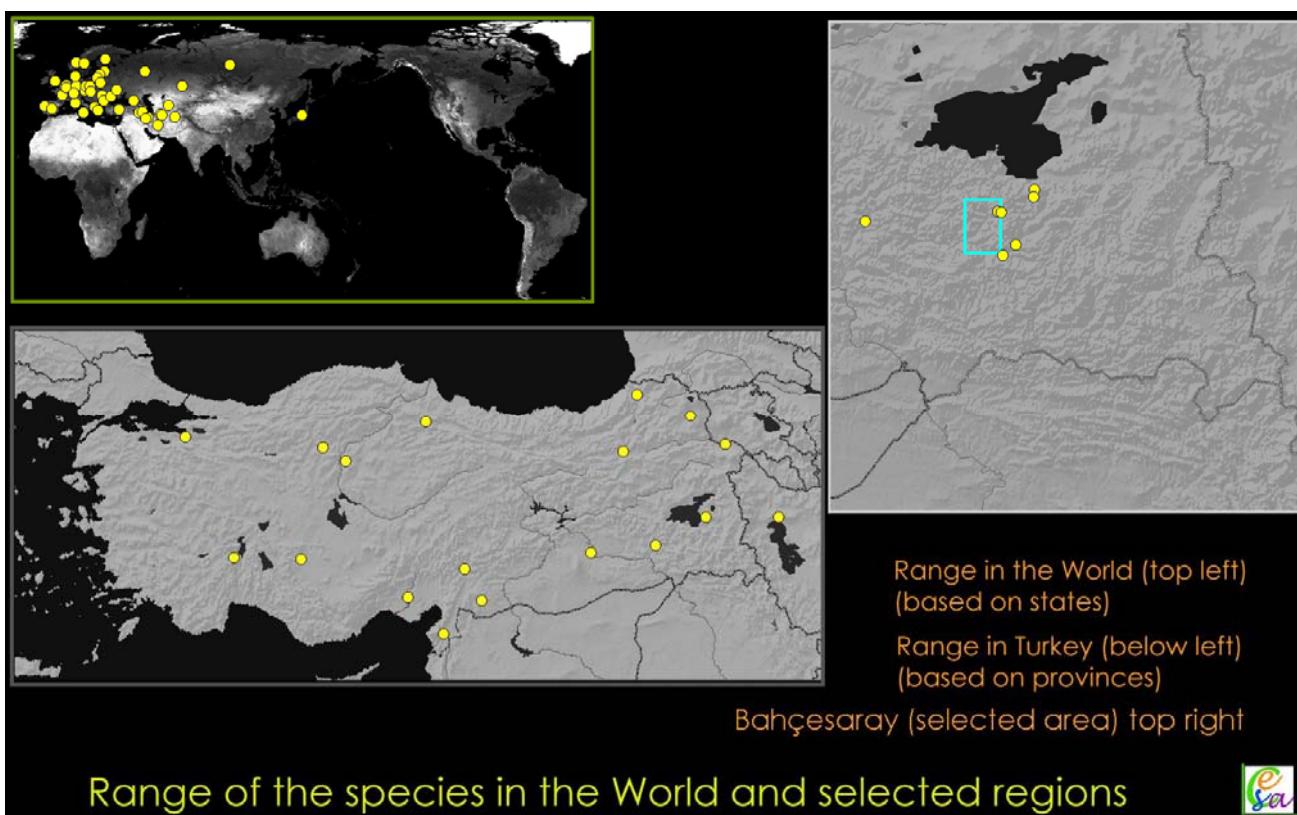
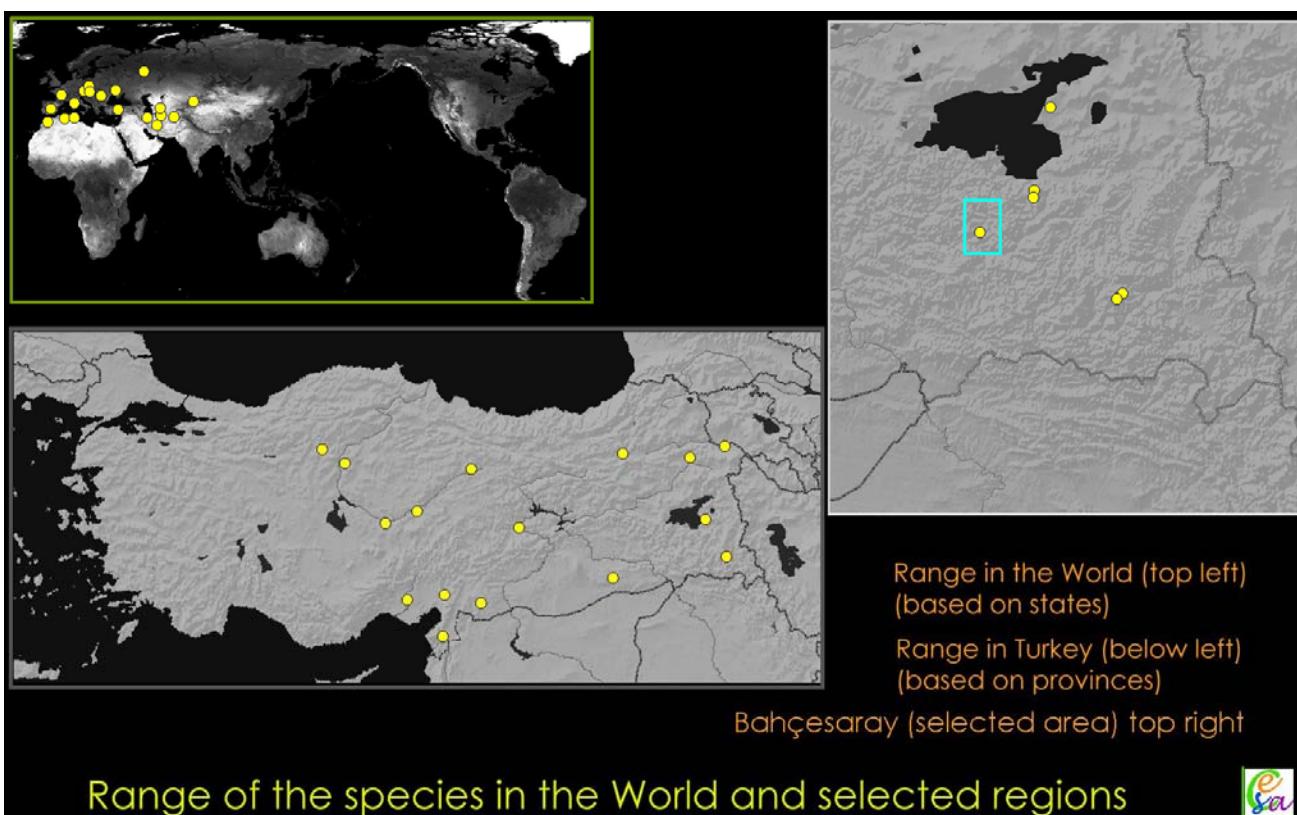
Map 45 (399) - *Phycitodes albatella*Map 46 (402) - *Polyocha transversariella*

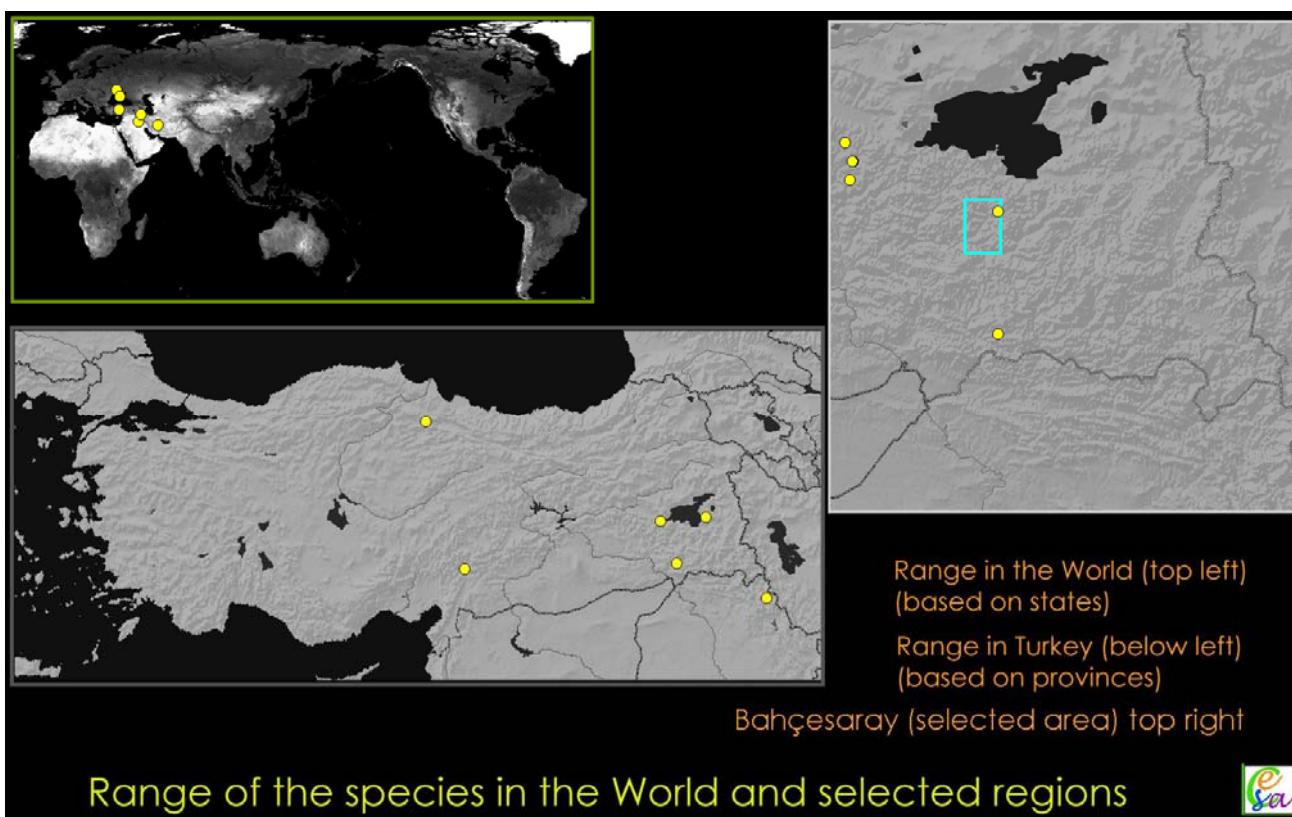
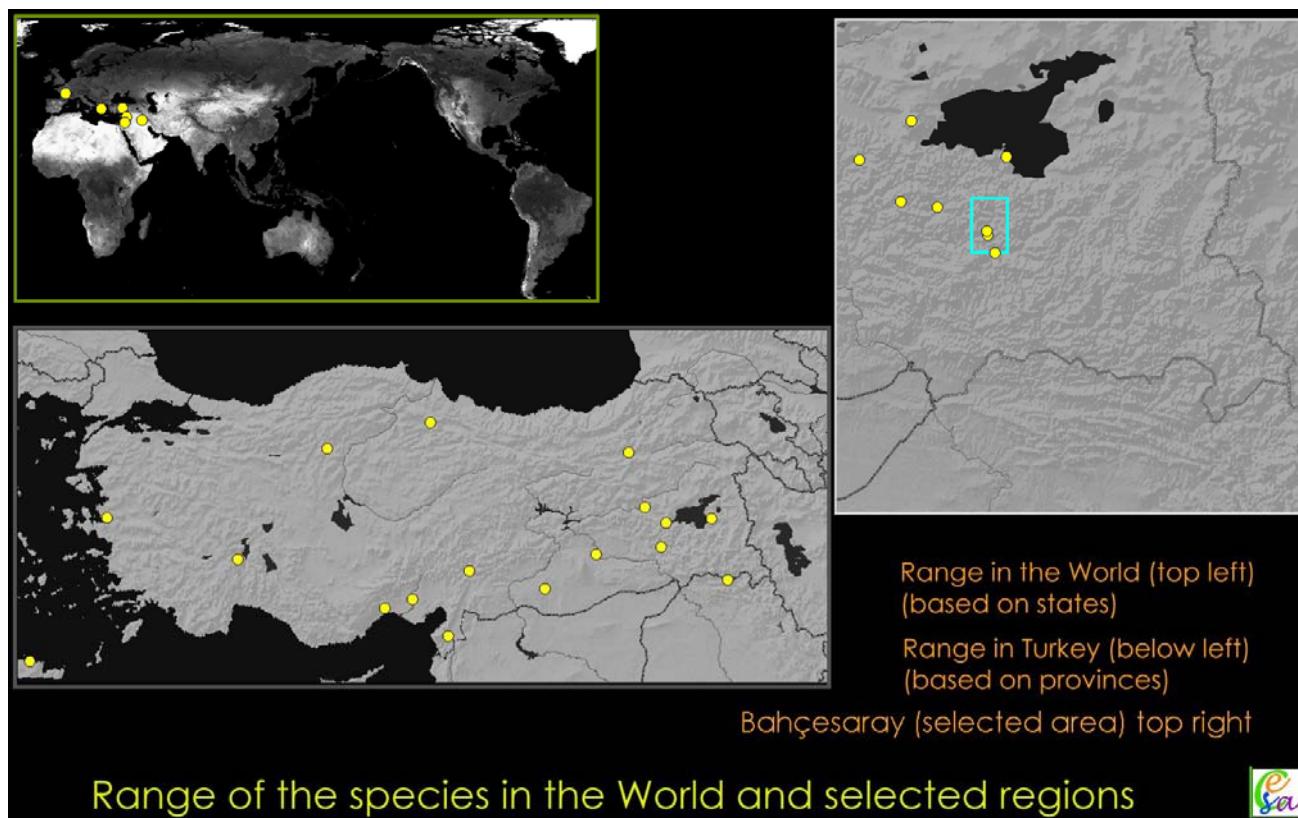
Map 47 (404) - *Psorosa maraschella*Map 48 (409) - *Pyrasia gutturalis*

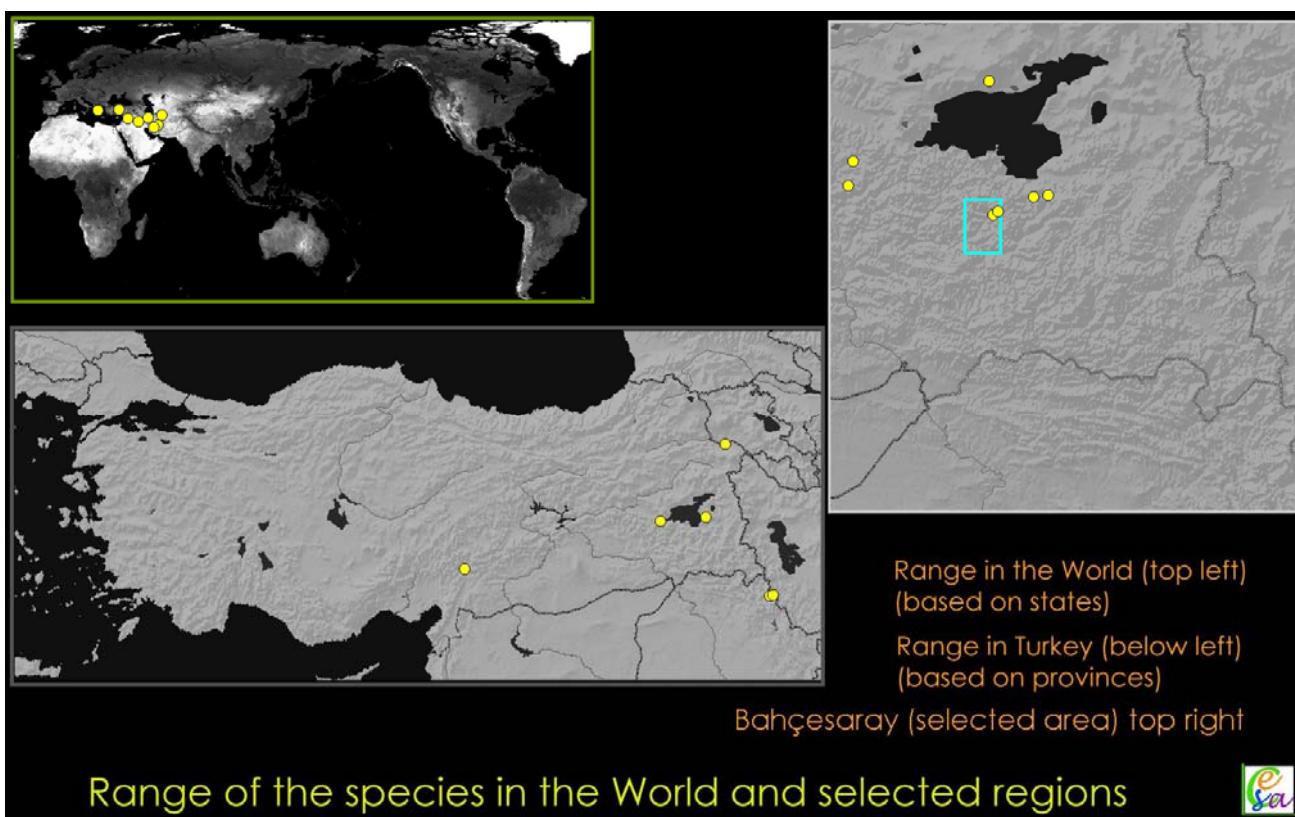
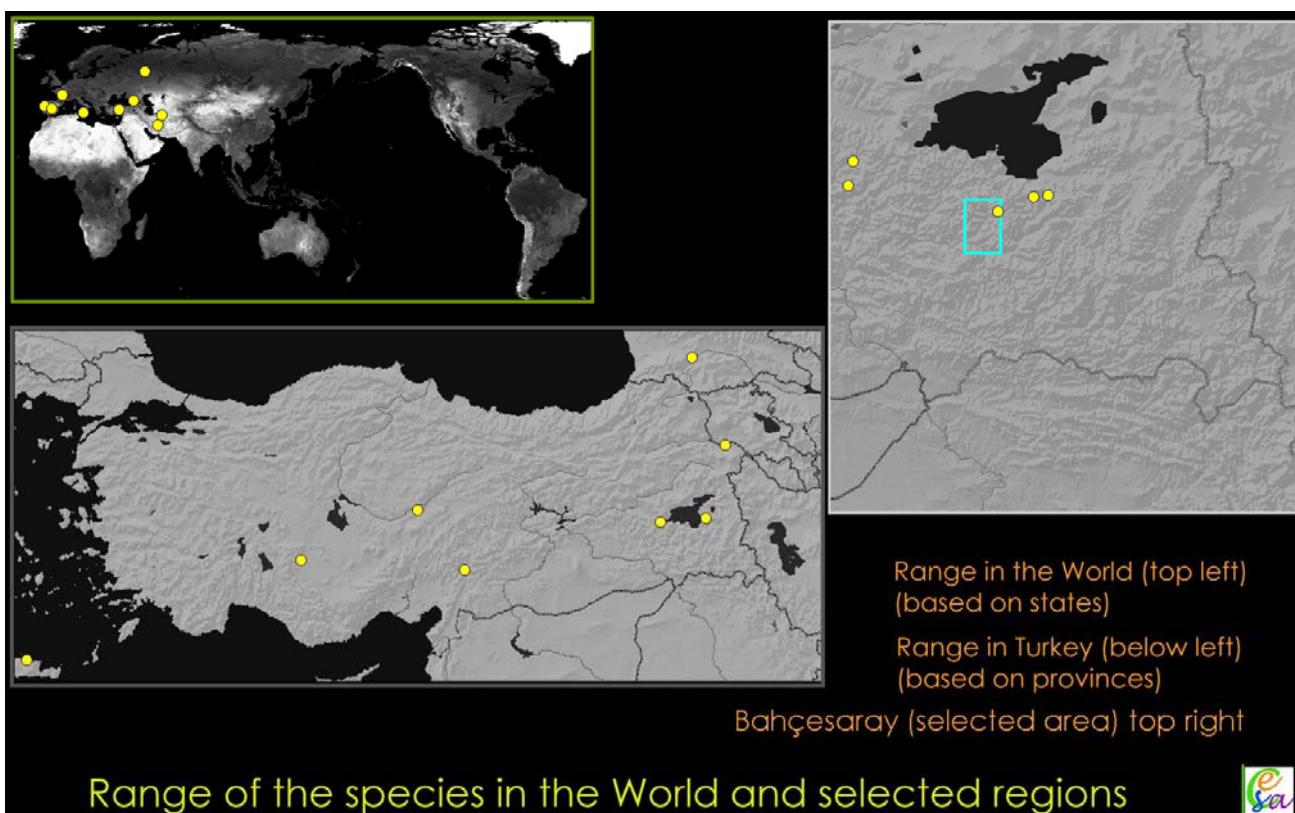
Map 49 (411) - *Pyrausta amatalis*Map 50 (417) - *Pyrausta obfuscata*

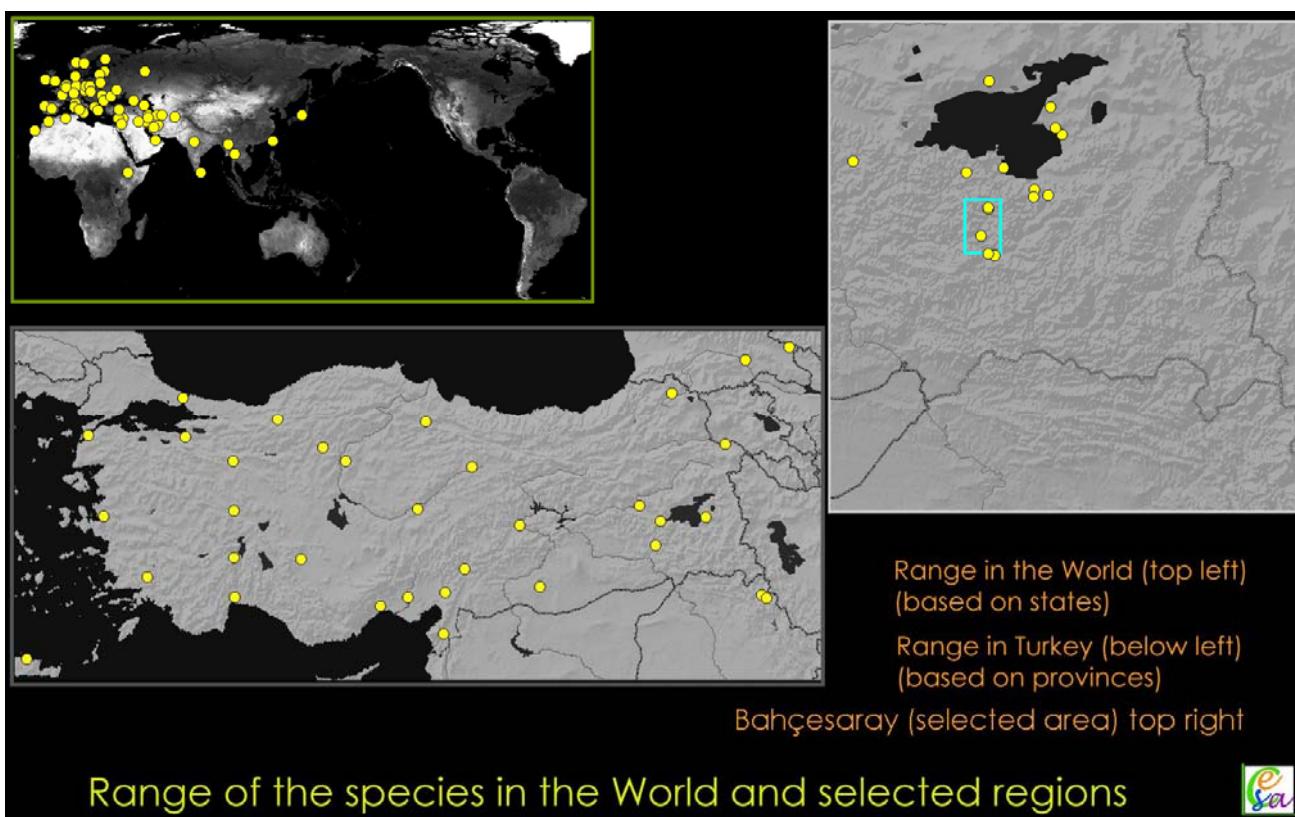
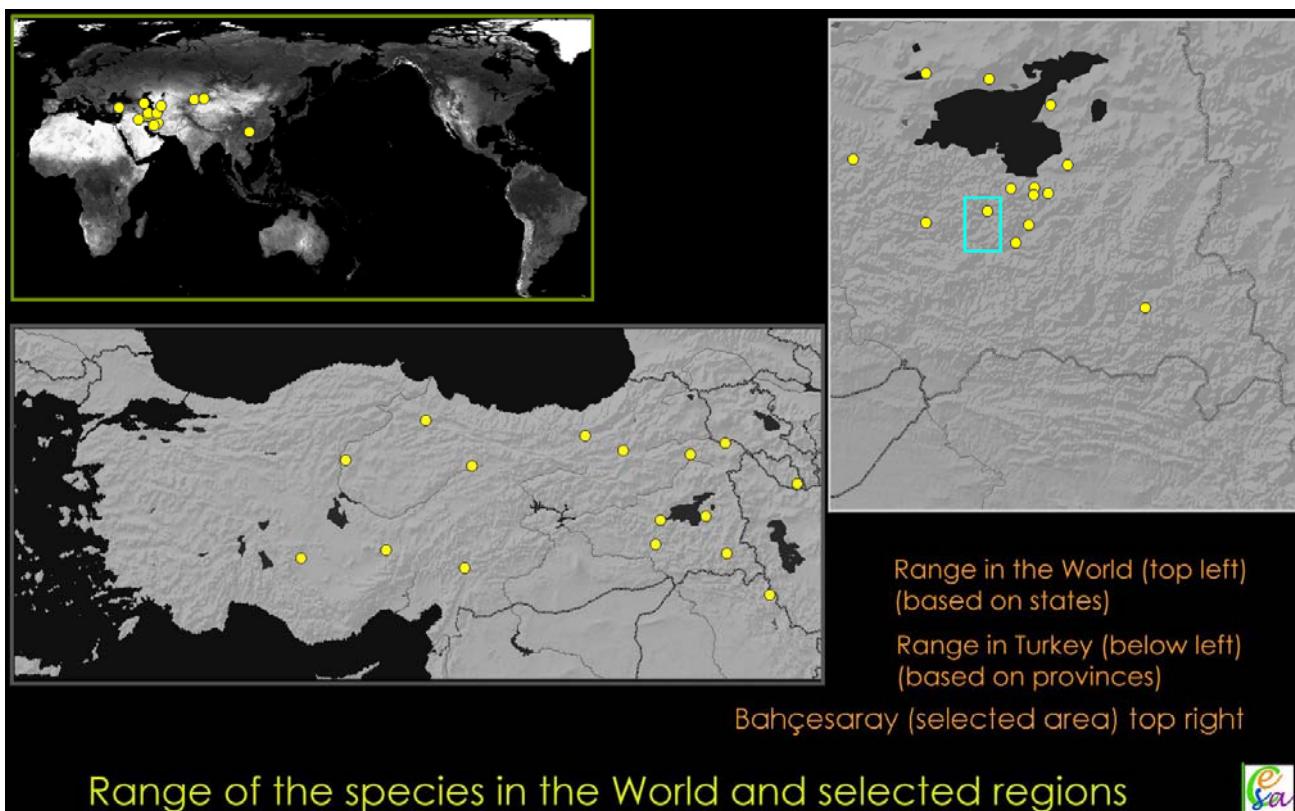
Map 51 (418) - *Pyrausta pavidalis*Map 52 (420) - *Pyrausta sanguinalis*

Map 53 (423) - *Sefidia clasperella*Map 54 (424) - *Sitochroa straminealis*

Map 55 (425) - *Sitochroa verticalis*Map 56 (426) - *Synaphe bombycalis*

Map 57 (427) - *Syrianarpia mendicalis*Map 58 (428) - *Treptopteryx pertusalis*

Map 59 (429) - *Udea confinalis*Map 60 (430) - *Udea dispunctalis*

Map 61 (431) - *Udea ferrugalis*Map 62 (432) - *Udea praepetalis*

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